

UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING

INDUSTRIAL TRAINING REPORT

**ENHANCING AND OPTIMIZING XEERSOFT
SYSTEM FUNCTIONALITY**

By

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| | |
|-------------------|------------------------------------------------------------------------------------------|
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First, I would like to express my sincere gratitude to XeerSoft company for providing me with the invaluable opportunity to undergo an internship at their organization. I am thankful for the chance to contribute and learn in such a dynamic and supportive environment. The exposure and insights gained during my internship at XeerSoft have been pivotal in enhancing my skills and knowledge in programming.

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Lastly, I express my deepest gratitude to my parents for providing mental support throughout the entire internship period. Their encouragement and understanding have been my pillar of strength, making this journey more manageable and rewarding. Thank you for being a constant source of motivation and belief in my abilities.

ABSTRACT

Industrial training is an important program which provide the practical experience for the student to apply theoretical knowledge gained in their university life. By undergo industrial training in XeerSoft company, various tasks were assigned to me, tailored to my skill level, contributing to the development of practical skills such as programming techniques and task handling. This report aims to summarize the experiences during the internship at XeerSoft, guided by company supervisor Mr. Hoe Leng Wee and faculty supervisor Dr. Marina Binti Md Arshad. Throughout the industrial training, I engaged in tasks that involved new client requirements and addressing system bugs identified by the QA team. These assignments allowed me to enhance my programming skills, task management proficiency, and problem-solving abilities. The experience gained in handling real-time tasks is particularly valuable for my future career. This report will provide a detailed overview of the tasks undertaken and the skills acquired during this enriching industrial training experience. Last but not least, the problem faced and the suggestion for the industrial training will be mention at the last chapter for further improvement.

ABSTRAK

Latihan industri merupakan program penting yang memberikan pelajar pengalaman praktikal untuk mengaplikasikan pengetahuan teori yang diperolehi semasa belajar di universiti. Melalui latihan industri di syarikat XeerSoft, pelbagai tugas yang diberikan menyesuaikan dengan tahap kemahiran saya telah memberikan pembangunan daripada aspek kemahiran praktikal seperti teknik pengaturcaraan dan pengendalian tugas. Laporan ini bertujuan untuk merangkumkan pengalaman semasa latihan industri di XeerSoft, yang dipandu oleh penyelia syarikat Encik Hoe Leng Wee dan penyelia fakulti Dr. Marina Binti Md Arshad. Sepanjang latihan industri, saya terlibat dalam pelbagai tugas yang melibatkan keperluan baru pelanggan dan penyelesaian bug sistem yang dikenal pasti oleh pasukan QA. Tugas-tugas ini membolehkan saya meningkatkan kemahiran pengaturcaraan, kecekapan pengurusan tugas, dan keupayaan menyelesaikan masalah. Pengalaman mengendalikan tugas dalam masa nyata sangat bernilai untuk kerjaya masa depan saya. Laporan ini akan membincang bahawa tugas-tugas yang dilakukan dan kemahiran yang diperolehi semasa pengalaman latihan industri yang memuaskan ini. Akhirnya, masalah yang dihadapi dan cadangan untuk latihan industri akan dinyatakan dalam bab terakhir untuk penambahbaikan pada masa depan.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

XeerSoft is an international company which provide the service to all type of company in managing their business from time to time via the online platform. (XeerSoft, 2021). They provide the web-capability solution and IT support service to their business partners and clients. XeerSoft was founded by Mr Wong Wai Kit in 2002 and they have the offices and subsidiaries in Malaysia and Bangkok which enable the corporation with others company globally but not restrict in Malaysia only. Based on their business history, over 10000 customers give good feedback towards their software product.

XeerSoft are mainly provide the technique and software service in developing the business application in online platform which enable the clients can easily handle their company from various device such as laptop and smartphone from time to time. They also deliver the end-to-end IT solution and long-term partnership business model with their customer by provide the new version business application for more excellent performance.

There consist of 3 branches for XeerSoft company which are Kuala Lumpur as the company's headquarters, Melaka as the branch which focus on the quality assurance part and Johor as the branch focus on development. More than 600 employees are working in these 3 main offices. However, JB branch only consist of 1 branch manager and 8 permanent staff, which divided into the delivery team(3 person) and developer team (5 person).

1.2 Organization's Core Business and Activity

XeerSoft are basically focus on the solution provider throughout the online platform via several IT technique. One of their product is the cloud-based accounting system. It is a web-based and fully online system which enable the customer can check their own company information by using their device. Besides, the system also provides a bank transaction function which the customer able to do online reconciliation with bank for verification of credit card transactions which enable the clients can do the transaction through the online system without signing massive number of cheques.

Another product that related to the online system is the inventory system which support the function of merchandising reports. This system can let the clients to manage their stock which also provide the online stocks overview and the advanced stocks report function so that they can control their stock and minimizes loss due to over-stock. It also provides the auto ordering function which can prevent the out-of-stock situation especially for the good-sell product.

1.3 Organization Structure

Figure 1 show the organization structure of XeerSoft company which include all the leader team and management team.



Figure 1.1 Organization Structure

1.4 Unit Information for Practical Training

Based on the understanding on the procedure which all the staff need to do, the practical training will occur by giving the task from the Project Manager. After the task is assigned, the developer needs to carry out the system design based on the clients requirement before construct the page. Once the system design is approved by the Project Manager, the developer can start to construct the online web-based system by using different software tools. Besides, the developer also take part in the bug fixing process when the quality assurance team and the clients found some bug occur in their current used system. This will help to ensure the system can be runnable at all time/

1.5 Gantt Chart

Figure 1.2 show the Gantt Chart which describe the timeline of the events occur during the internship period.

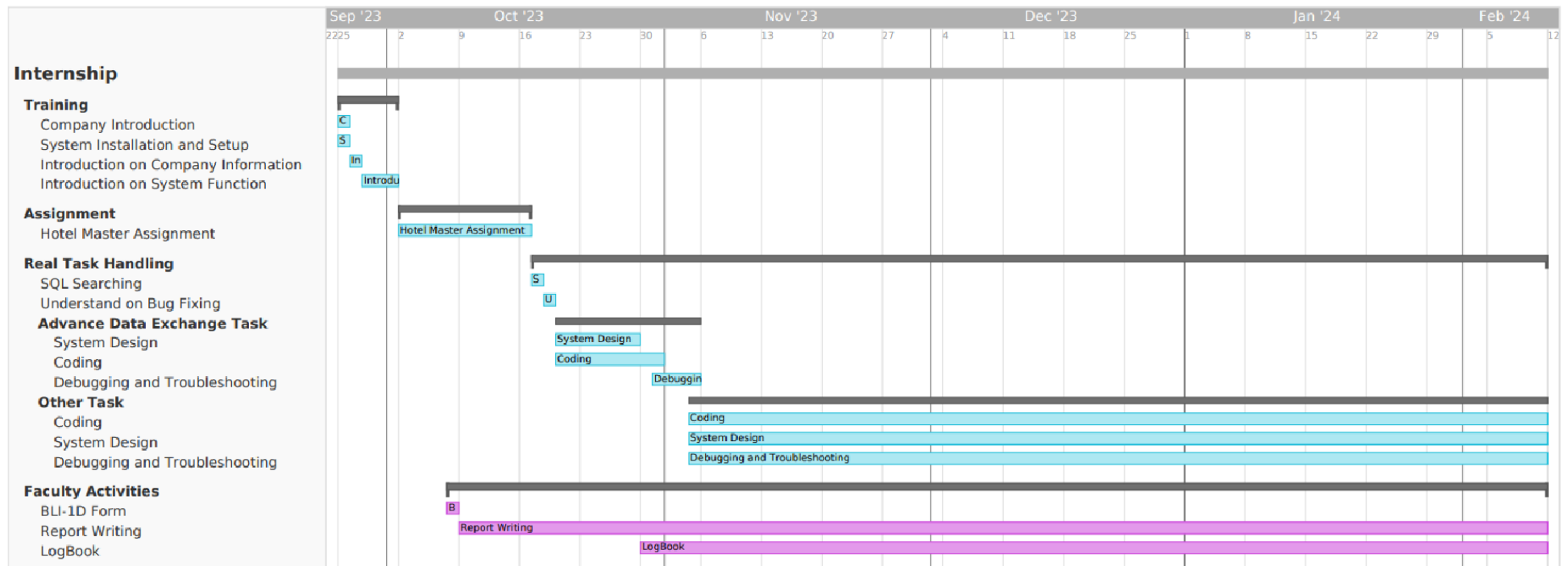


Figure 1.2 Gantt Chart

1.6 Chapter Summary

In Chapter 1, it will focus on the introduction to the company, which is XeerSoft and its organization structure. Besides, the unit information for practical training also will be introduced follow by the Gantt Chart for the internship program along the industrial training period.

CHAPTER 2

SPECIFIC DETAILS IN PROJECT/TRAINING

2.1 Introduction

This chapter will give some description about the internship program which take about 20 week. The main task which carries out by intern students also will be elaborated in this chapter. Besides, the brief introduces of software which required to use along the internship will be carry out for basic understanding on the internship program.

2.2 Training Objectives

The training objectives are:

- a) To understand the company culture and its workflow
- b) To gain the practical experience on handling client's requirement
- c) To strengthen the practical skills in a real-world work environment

2.3 Main Internship Task

In general, within the internship period which is 20 weeks, the training will focus on our ability in handle on different task which required by different clients. Different requirement needs different skill for us in order to solve the trouble meet. The top management team will assign the task by using TestTrack Client with the specific ID.

2.3.1 Customize Data Exchange (ID=50346)

2.3.1.1 Task Overview

This task is about the advance data exchange function which provided in XeerSoft system to allow the client to do modify the data by upload the excel file so that the user can insert or update the product information in one step. Based on the task detail, the client wishes to have a new requirement in getting a new template of data exchange to enhance their performance in insert and update product with 12-digit SKU. Figure 2.1 is about the task description from project manager.

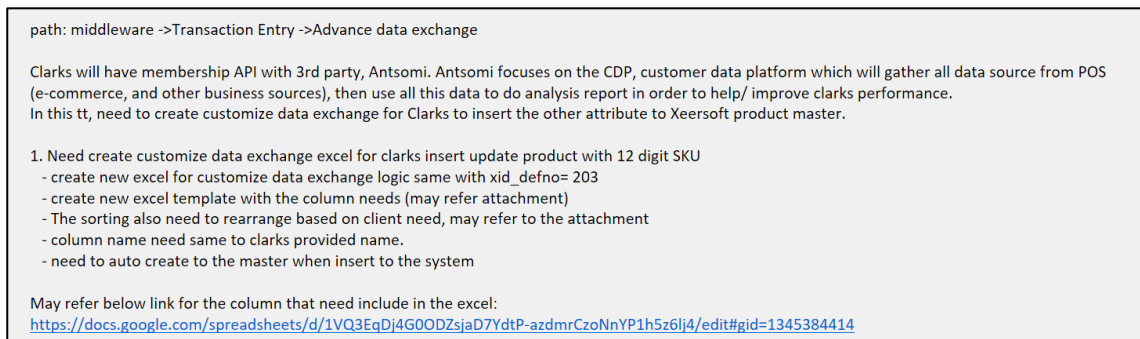


Figure 2.1: Task Description for Customize Data Exchange

2.3.1.2 System Design

To ensure that the developer has clear understanding on the task and the logic is correct, all the developer need to do the system design before start coding. The system design will include all the related information about the task such as the path to reach the page, the file involved, the solution that will be carry out, and the target version to do the new requirement. Figure 2.2 show the overall system design for this task.

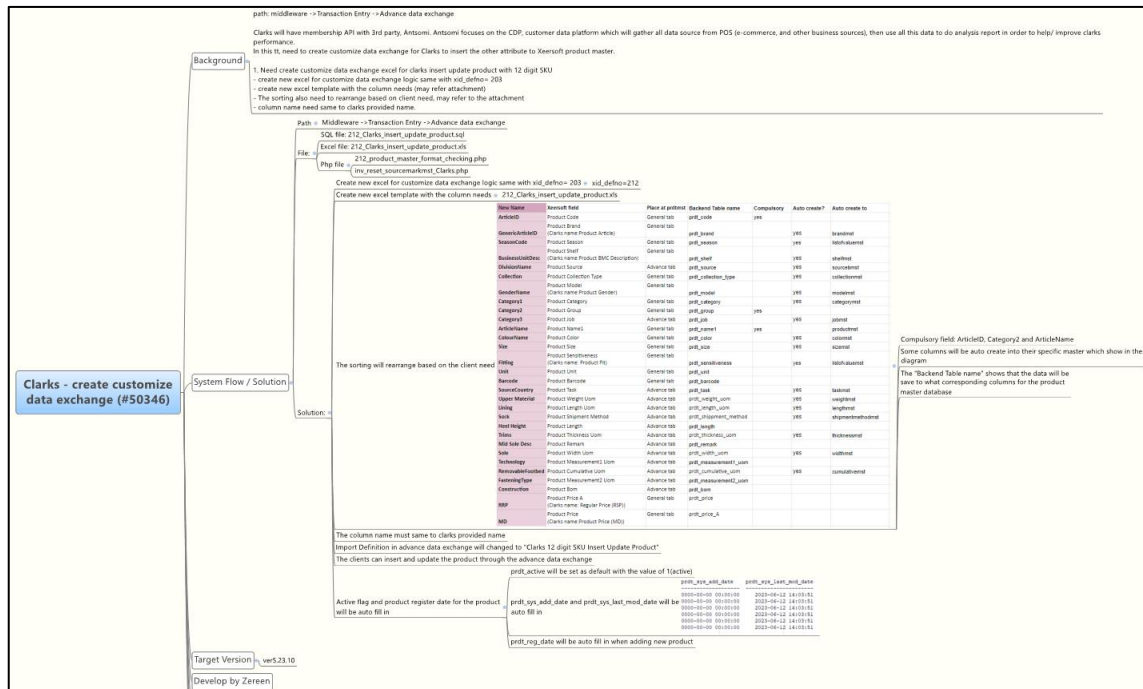


Figure 2.2: System Design for Customize Data Exchange

The function will implement in the middleware menu page which include all the advance data exchange function for different requirement. Figure 2.3 show the interface of the middleware menu page.

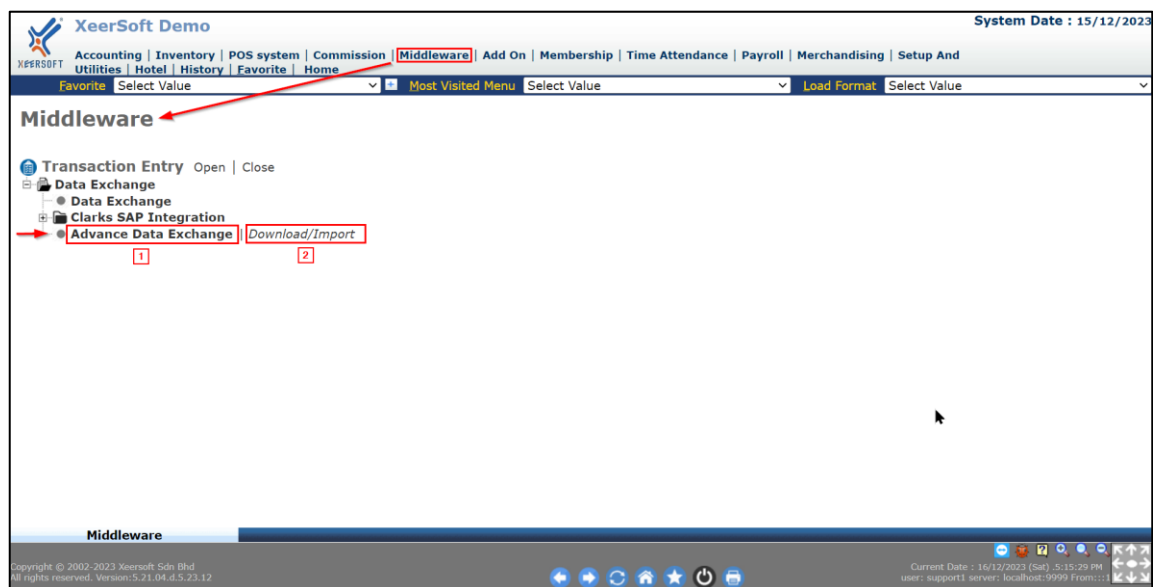


Figure 2.3: Interface of Middleware menu page

The function which will involve in this task is the Advance Data Exchange (label as 1) and the Download/Import button beside the function name (label as 2). After confirm the path for the task, the developer needs to confirm what file will be edit and add by providing the name. Since this task is not edit other existing file, the developer will create the file by naming with meaningful file name for easier understanding.

Table 2.1: File involved for Customize Data Exchange

| File Name | Description |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 212_Clarks_insert_update_product.sql | All the SQL which used in this task will be stored in this file |
| 212_Clarks_insert_update_product.xls | The excel template for the data exchange with specific column name and format |
| 212_product_master_format_checking.php | The PHP file which used to check the duplicate barcode and the special character for product code in excel file |
| inv_reset_sourcemarkst_Clarks.php | The PHP file which used to insert the new barcode to the database and record the history when any changes is occur in the product price |

From the product master maintenance page, the input data will link to specific database table so it is important to record all the database table that will affect through this task. For easier understanding, Google Spreadsheet is used to record down all the information regarding the database and its corresponding column. Figure 2.4 show the details of the Google Spreadsheet.

| New Name | Xeersoft field | Place at prdtmst | Backend Table name | Compulsory | Auto create? | Auto create to |
|------------------|--------------------------------------------------------|------------------|-----------------------|------------|--------------|-------------------|
| ArticleID | Product Code | General tab | prdt_code | yes | | |
| GenericArticleID | Product Brand (Clarks name:Product Article) | General tab | prdt_brand | | yes | brandmst |
| SeasonCode | Product Season | General tab | prdt_season | | yes | listofvaluemst |
| BusinessUnitDesc | Product Shelf (Clarks name:Product BMC Description) | General tab | prdt_shelf | | yes | shelfmst |
| DivisionName | Product Source | Advance tab | prdt_source | | yes | sourcebmst |
| Collection | Product Collection Type | General tab | prdt_collection_type | | yes | collectionmst |
| GenderName | Product Model (Clarks name:Product Gender) | General tab | prdt_model | | yes | modelmst |
| Category1 | Product Category | General tab | prdt_category | | yes | categorymst |
| Category2 | Product Group | General tab | prdt_group | yes | | |
| Category3 | Product Job | Advance tab | prdt_job | | yes | jobmst |
| ArticleName | Product Name1 | General tab | prdt_name1 | yes | | productmst |
| ColourName | Product Color | General tab | prdt_color | | yes | colormst |
| Size | Product Size | General tab | prdt_size | | yes | sizemst |
| Fitting | Product Sensitiveness (Clarks name: Product Fit) | General tab | prdt_sensitiveness | | yes | listofvaluemst |
| Unit | Product Unit | General tab | prdt_unit | | | |
| Barcode | Product Barcode | General tab | prdt_barcode | | | |
| SourceCountry | Product Task | Advance tab | prdt_task | | yes | taskmst |
| Upper Material | Product Weight Uom | Advance tab | prdt_weight_uom | | yes | weightmst |
| Lining | Product Length Uom | Advance tab | prdt_length_uom | | yes | lengthmst |
| Sock | Product Shipment Method | Advance tab | prdt_shipment_method | | yes | shipmentmethodmst |
| Heel Height | Product Length | Advance tab | prdt_length | | | |
| Trims | Product Thickness Uom | Advance tab | prdt_thickness_uom | | yes | thicknessmst |
| Mid Sole Desc | Product Remark | Advance tab | prdt_remark | | | |
| Sole | Product Width Uom | Advance tab | prdt_width_uom | | yes | widthmst |
| Technology | Product Measurement1 Uom | Advance tab | prdt_measurement1_uom | | | |
| RemovableFootbed | Product Cumulative Uom | Advance tab | prdt_cumulative_uom | | yes | cumulativemst |
| FasteningType | Product Measurement2 Uom | Advance tab | prdt_measurement2_uom | | | |
| Construction | Product Bom | Advance tab | prdt_bom | | | |
| RRP | Product Price A (Clarks name: Regular Price (RSP)) | General tab | prdt_price | | | |
| MD | Product Price (Clarks name:Product Price (MD)) | General tab | prdt_price_A | | | |

Figure 2.4: Record of Google Spreadsheet

Besides, the product register date will be auto insert to the database table which can help the client track the history. The column of active flag in database table also required to default set as 1, which is active, to indicate the product is available. The system design will submit to the TestTrack Client for further checking by the project manager and top management team to ensure that there is no error and confusing part. This file will also being useful in testing section as the quality control team will refer the system design to check the overall procedure. Last but not least, the version will be written in the system design for future record.

2.3.1.3 Excel Template

After the top management team approved the system design, the excel template need to be prepared based on the requirement. Figure 2.5 shows the specific excel template for this task.

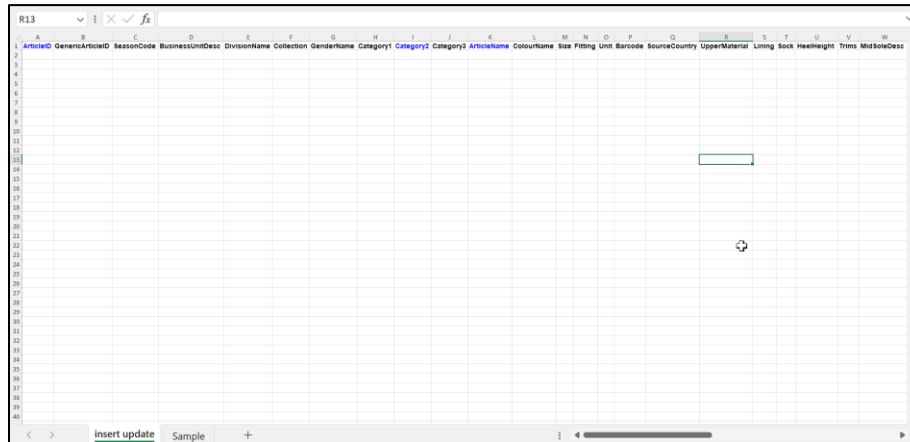


Figure 2.5: Excel template for Customize Data Exchange

The excel file consist of two different sheets, the first sheet is about the empty template which used in the advance data exchange function. The blue word represents the compulsory column which the user is necessary to fill the column when using the function to insert or update the data.

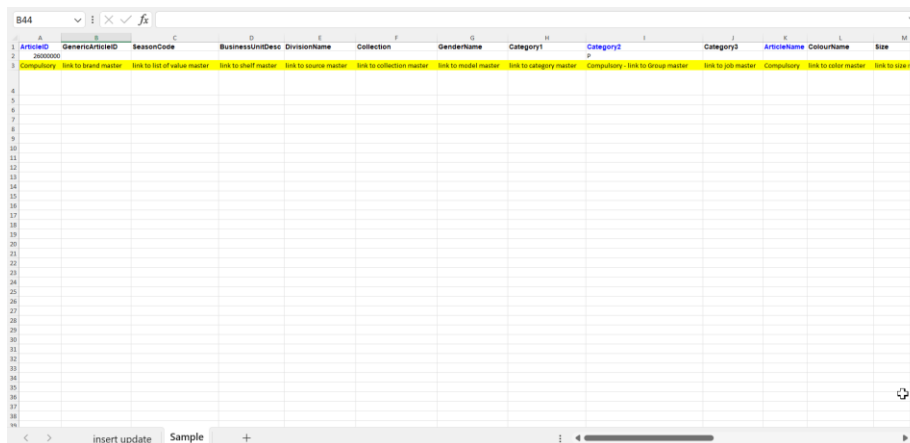


Figure 2.6: Sample for Customize Data Exchange

The second sheet which shown in Figure 2.6 will give some example and description for the client to have basic understanding on the excel column.

2.3.1.4 SQL File

The SQL File will store all related SQL query and it will run in the client database. 3 database tables will be involved in the SQL file which is the header table, detail table, and setting table. In the first part of SQL File, it will write all the SQL query that used to check the compulsory column, empty rows, and avoid duplication for the product code. Beside the checking function, all the auto insert comment will write here if the user had key in the new value for each master database. All the related checking PHP and audit log, which help to track the history, also insert into the specific column for this database.

For the detail table, it will store all the column detail and the replace comment in header table such as the joining of other database table, auto insert to the database table for the new value and auto update the value for the product code if already exist in the database. This will help in reduce the complexity in header table. Besides, for the barcode column, it consists of specific function to check the duplicate barcode within the excel file to avoid the user enter same barcode since the barcode must be specific for all product.

For the setting table, it will combine the format with the SQL column name. It can be using different platform to insert the data such as Comma-Separated Values (CSV) file and Excel file (XLS). However, only excel file will be used for this task based on the client requirement. Figure 2.7 shows a part of SQL query which will insert to the header table.

```

2  INSERT INTO keersoft_dyn_import_def_header (xih_defno,xih_code,xih_name1,xih_check_sql,xih_check_file,xih_insert_sql,xih_insert_file,xih_columns
,xih_excel_template,xih_audit,xih_active)
3  VALUES(212,'Clarks 12 digit SKU Insert Update Product','Clarks 12 digit SKU Insert Update Product','
4  Delete Empty Rows[=]
5  DELETE FROM {finaltemptable}
6  WHERE (ArticleID IS NULL OR ArticleID='') AND (ArticleName IS NULL OR ArticleName='');
7  CREATE TEMPORARY TABLE (checkTable) (nothing char(1));
8  [::]
9  Compulsory Fields[=]
10 CREATE TEMPORARY TABLE (checkTable)
11 SELECT ArticleID,ArticleName,Category2 FROM {finaltemptable} WHERE (ArticleID IS NULL OR ArticleID='') OR (ArticleName IS NULL OR
ArticleName='') OR (Category2 IS NULL OR Category2='');
12 [::]
13 Duplication Code Within the File[=]
14 CREATE TEMPORARY TABLE (checkTable) SELECT {finaltemptable}.ArticleID, COUNT(1) AS num FROM {finaltemptable}
15 GROUP BY {finaltemptable}.ArticleID HAVING num>1;
16 ', '212_product master format checking.php',
17 /*dyn_categorymst_auto_insert*/
18 /*dyn_modelmst_auto_insert*/
19 /*dyn_shelfmst_auto_insert*/
20 /*dyn_seasonmst_auto_insert*/
21 /*dyn_sativenessmst_auto_insert*/
22 /*dyn_colormst_auto_insert*/
23 /*dyn_sizemst_auto_insert*/
24 /*dyn_collection_auto_insert*/
25 /*dyn_sourcemst_auto_insert*/
26 /*dyn_taskmst_auto_insert*/
27 /*dyn_jobmst_auto_insert*/
28 /*dyn_brandmst_auto_insert*/
29 /*dyn_weightmst_auto_insert*/
30 /*dyn_lengthmst_auto_insert*/
31 /*dyn_thicknessmst_auto_insert*/
32 /*dyn_widthmst_auto_insert*/
33 /*dyn_cumulativemst_auto_insert*/
34 /*dyn_shipmentmethdmst_auto_insert*/
35
36 INSERT INTO product_price_history(price_his_prdt_no, price_his_update_type,price_his_orig, price_his_new)
37 SELECT prdt_no, 1, prdt_price, {finaltemptable}.MD FROM productmst
38 LEFT JOIN {finaltemptable} ON prdt_code = {finaltemptable}.ArticleID

```

Figure 2.7: Part of SQL query

2.3.1.5 Result

By running the SQL query in the server, the user will able to undergo the data exchange for the product. It can directly check the data exist in Excel file to avoid duplication and auto insert the new value to the related database table. If the data do not have any problem exist, it will show successfully insert to the database. Figure 2.8 shows the exact result for this task. Figure 2.8 shows checking on auto insert will show that what value will be insert into database table and Figure 2.9 shows the successful insert of the data to database table.

Initializing Table
Initializing Complete

| Row | ArticleID | GenericArticleID | SeasonCode | BusinessUnitDesc | DivisionName | Collection | GenderName | Category1 | Category2 | Category3 | ArticleName | ColourName | Size | Fitting | Unit | Barcode | SourceCountry | UpperMaterial | Lining |
|-----|-------------|------------------|------------|-----------------------|--------------|------------|------------|-----------|-----------|-------------|----------------|------------|------|---------|------|------------|---------------|---------------|--------|
| 0 | 22213112341 | Harvin | Spring | Harvin Spring Slipper | HR | Shoe | Female | Slipper | P | New Arrival | Harvin Slipper | Black | 40 | Yes | US | 0033294733 | Malaysia | terry cloth | |

Start Checking

Checking [Delete Empty Rows] . OK!
Checking [Compulsory Fields] . OK!
Checking [Duplication Code Within the File] . OK!
Checking [Generic Article ID Validity - Code Not Found will be automatically created to Brand master]
Code Not Found! Auto Creation :

| Row | GenericArticleID |
|-----|------------------|
| 0 | Harvin |

Checking [Category1 Validity - Code Not Found will be automatically created to Category master]
Code Not Found! Auto Creation :

| Row | Category1 |
|-----|-----------|
| 0 | Slipper |

Checking [Gender Name Validity - Code Not Found will be automatically created to Model master] . OK!
Checking [Color Name Validity - Code Not Found will be automatically created to Color master] . OK!
Checking [Size Validity - Code Not Found will be automatically created to Size master]

Figure 2.8: Result for the customize data exchange

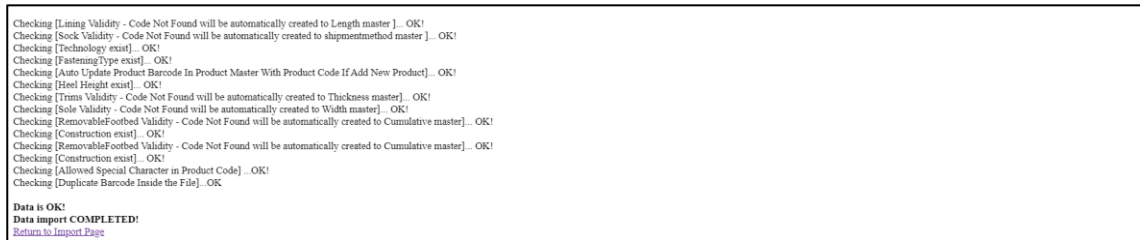


Figure 2.9: Result of successful insert to database table

2.3.2 Reset User Serialize Button (ID=50546)

2.3.2.1 Task Overview

This task is about the new requirement on adding the reset user serialize page at the User Registration part. Before this, the support team need to help the user to go to the backend portal to manually clear the user serialized. Therefore, the client wishes to have a button to clear the user serialize column by themselves. Figure 2.10 show the task description for this task.

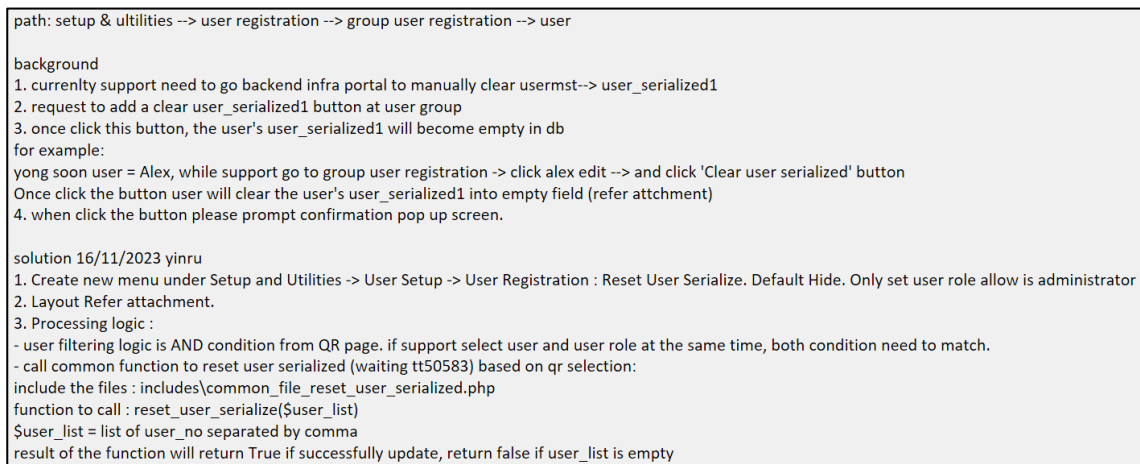


Figure 2.10: Task Description for Reset User Serialize Button

2.3.2.2 System Design

The system design will show how the developer in coding the file at the solution part. First, the interface for the reset user serialized will be built by using Code Charge Studio, and it will place in the User Registration under User Setup. Next, the confirmation

Figure 2.12: Interface design attached by the project manager

Since this interface will link to the database table, the submit action should directly link to the function to reset user serialized. This can be achieved through adding the action in event file which shown in Figure 2.13.

```

16  global $resetuserserialized; //Compatibility
17  //End resetuserserialized_OnValidate
18
19  //Custom Code @112-2A29BDB7
20  //-----
21  global $nllldb;
22  require_once(RelativePath . "/includes/common_file_reset_user_serialized.php");
23  $user_no = $resetuserserialized->hid user->getValue();
24  $user_role = $resetuserserialized->hid userrole->getValue();
25  $user_no=str_replace(",","",$user_no);
26  $user_role=str_replace(",","",$user_role);
27
28  if($user_no!=''&&$user_role!='')
29  {
30      $sql = "SELECT user_no,user_login_name FROM usermat WHERE user_no IN ('$user_no') AND user_role IN ('$user_role') ORDER BY user_no
31      ASC;";
32  }
33  else if($user_no!=''&&$user_role=='')
34  {
35      $sql = "SELECT user_no,user_login_name FROM usermat WHERE user_no IN ('$user_no') ORDER BY user_no ASC;";
36  }
37  else if($user_no=='&&$user_role!='')
38  {
39      $sql = "SELECT user_no,user_login_name FROM usermat WHERE user_role IN ('$user_role') ORDER BY user_no ASC;";
40  }
41
42  $user = $nllldb->executeQuery($sql);
43  while($row_user = $nllldb->fetchArray($user))
44  {
45      $user_list=$row_user['user_no'].",".$user_list;
46      $user_name=$row_user['user_login_name'].",".$user_name;
47  }
48
49  $user_list=rtrim($user_list,',');
50  $user_name=rtrim($user_name,',');
51  $result=reset_user_serialize($user_list);

```

Figure 2.13: Part of the event file code

2.3.2.4 Result

The overall reset user serialized page is shown in Figure 2.14. The client can choose to reset the user serialized by selecting the user or user role. Besides, the client also can select multiple user and user role at once. Only the matched user and user role will reset the user serialized column.

| Reset User Serialized | | | |
|-----------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------|
| User | 2 : support2 5 : support5 6 : support6 | > >> < << | 1 : support1 4 : support4 |
| | 10 : Logistic Exec 11 : Sales Exec 13 : Stock Clerk 14 : Purchase Clerk 15 : Logistic Clerk | | 1 : Administrator 12 : Account Clerk |
| | | <input type="button" value="Submit"/> <input type="button" value="Cancel"/> | |

Figure 2.14: Interface of reset user serialized function

2.3.3 Save Format for Smarty Report (ID=50601)

2.3.3.1 Task Overview

This task is assigned to avoid the selection saving for month and arrow button which exist in the smarty report page.

2.3.3.2 System Design

Figure 2.15 shows the system design for this task. Since the file involved consist of 41 page, the column for showing the file is hided and only show the main menu involved. The solution part shows the code need to be change and the button involved to make sure that no misunderstanding on the task requirement.

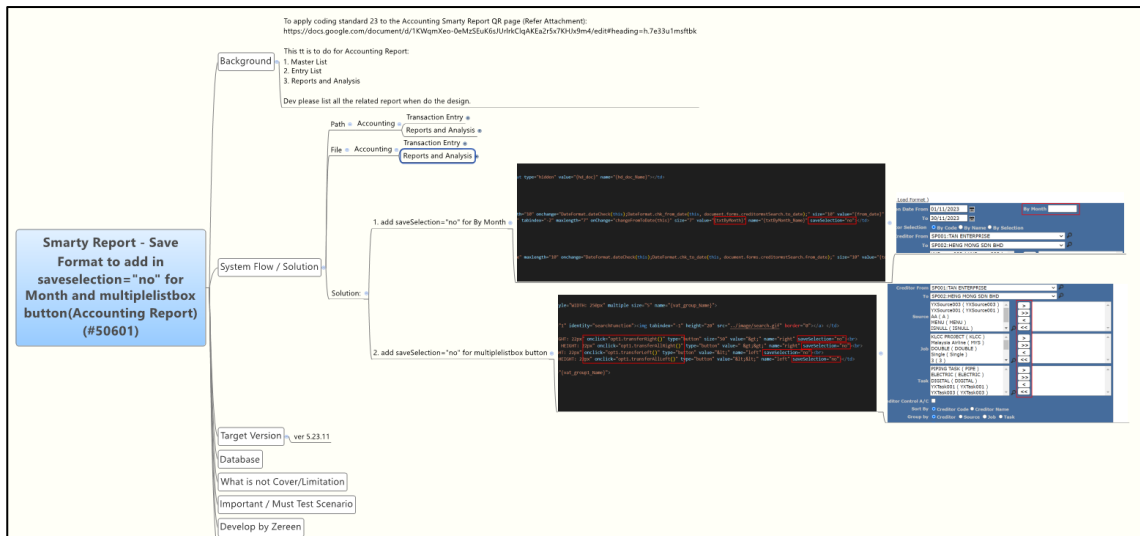


Figure 2.15: System design for save format for smarty report task

2.3.3.3 Result

The result will show no selection is save for the button when save the new format.

Figure 2.16 shows the code which add the saveSelection='no' in the html page.

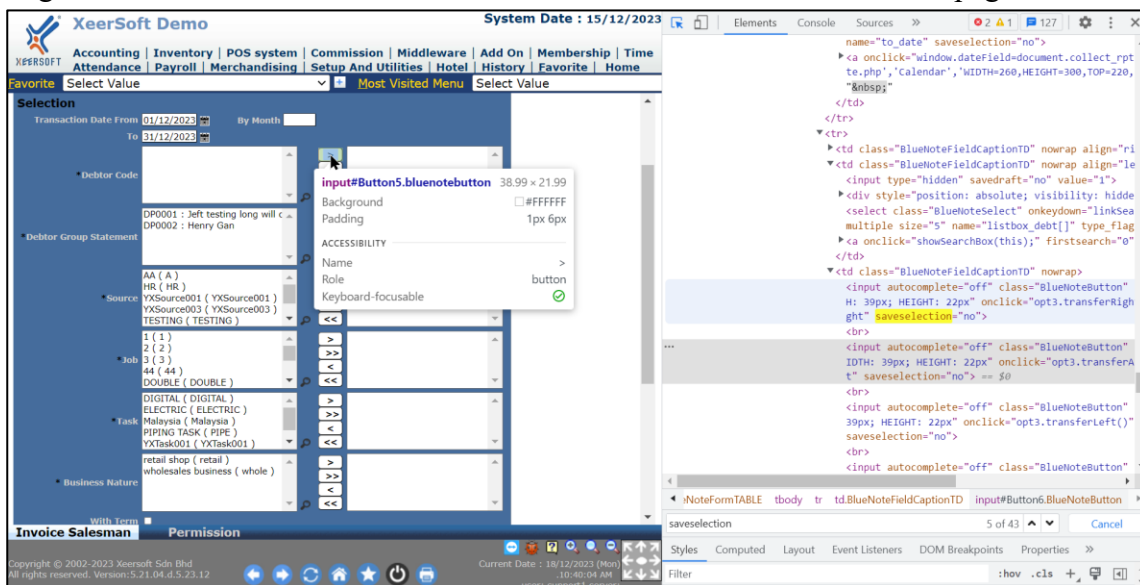


Figure 2.16: Example on the smarty report task

2.3.4 Scheduler Batch File (ID=50610)

2.3.4.1 Task Overview

In this task, the client wishes to have the standard scheduler set in system method which can enable the scheduler function in order for all the action related to it such as the cut off automation and reset stock balance. This batch file can set in the window task scheduler in order to help the client do some tasks without keep editing the scheduler setting.

2.3.4.2 System Design

Figure 2.17 shows the system design for the scheduler batch file task. It needs to create 2 new file for the standard scheduler and email scheduler.

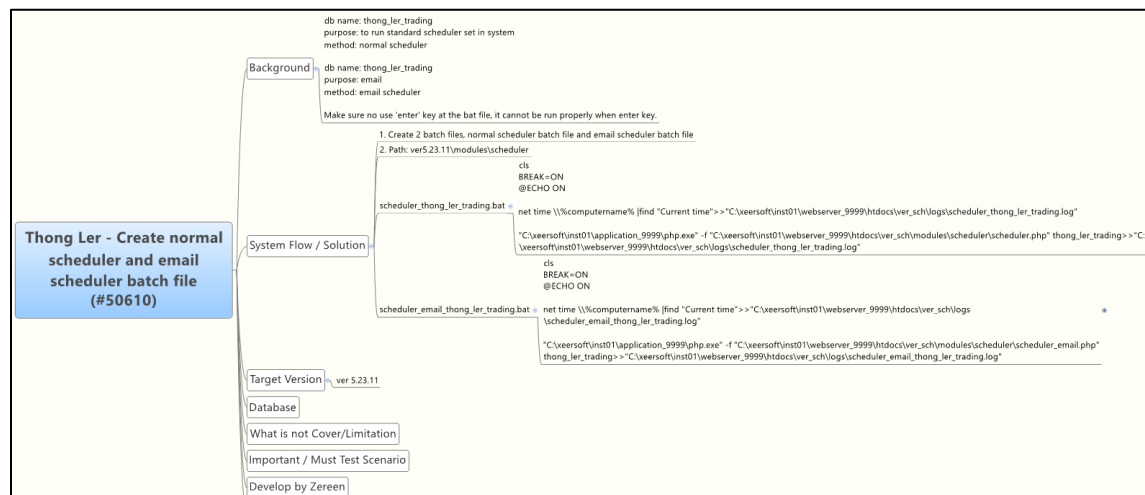


Figure 2.17: System design for scheduler batch file

2.3.4.3 Result

Figure 2.18 shows the final coding for the scheduler batch file task.

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>1 cls 2 BREAK=ON 3 ECHO ON 4 5 net time %%computername% find "Current time" >> "C:\xeersoft\inst01\webserver_9999\htdocs\ver_sch\logs\scheduler_tho ng_ler_trading.log" 6 7 "C:\xeersoft\inst01\application_9999\php.exe" -f "C:\xeersoft\inst01\webserver_9999\htdocs\ver_sch\modules\scheduler\ scheduler.php" thong_ler_trading >> "C:\xeersoft\inst01\webserver_9999\htdocs\ver_sch\logs\scheduler_tho ng_ler_trading.log"</pre> | <pre>1 cls 2 BREAK=ON 3 ECHO ON 4 5 net time %%computername% find "Current time" >> "C:\xeersoft\inst01\webserver_9999\htdocs\ver_sch\logs\scheduler_email_thong_le r_trading.log" 6 7 "C:\xeersoft\inst01\application_9999\php.exe" -f "C:\xeersoft\inst01\webserver_9999\htdocs\ver_sch\modules\scheduler\scheduler_e mail.php" thong_ler_trading >> "C:\xeersoft\inst01\webserver_9999\htdocs\ver_sch\logs\scheduler_email_thong_le r_trading.log"</pre> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Figure 2.18: Scheduler batch file

2.3.5 Accounting Master Layout Revamp (ID=50774)

2.3.5.1 Task Overview

In this task, the new UI design for the master page need to follow the example given which is the bootstrap file that had been done by other developer. To ensure all the coding is standardized, the developer need to follow the coding standard which create by the top management. Besides, the active column will add to the listing page for the user to search the active/inactive item based on their selection. The user define1 column will be removed based on the task requirement.

2.3.5.2 System Design

Figure 2.19 shows the system design for the layout revamp.

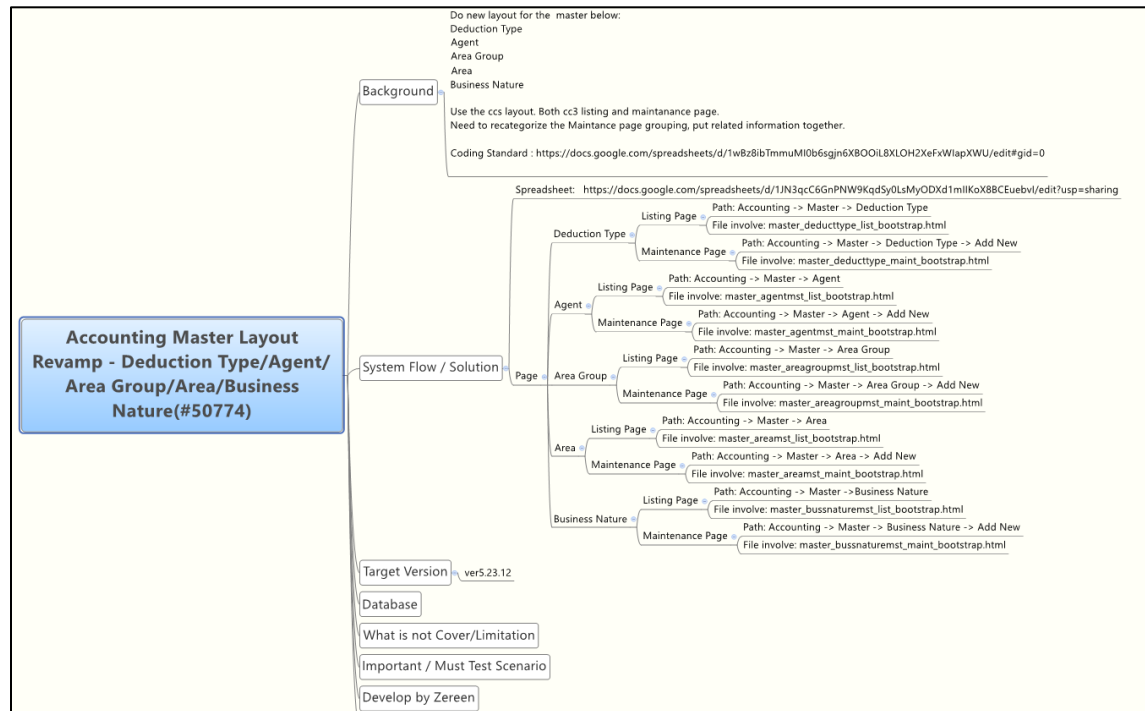


Figure 2.19: System design for the layout revamp.

2.3.5.3 Result

Figure 2.20 and Figure 2.21 shows the original interface before apply the bootstrap file for listing and maintenance page respectively while Figure 2.22 and Figure 2.23 shows the new UI design after apply the created bootstrap file.

Search Area Group

Area Group Code

Area Group Name

Area Group Userdefine1

Active

Record(s) In Row

Results In Excel ☐

Search

List of Area Group

Add New 1 of 1

| Area Group Code | Area Group Name | Area Group Name 2 | Area Group Userdefine1 | Area Group Status | Area Group Active | Area Group Sorting |
|-----------------|-----------------|-------------------|------------------------|-------------------------------------|-------------------------------------|--------------------|
| AG001 | Area Group 1 | | ffdxfdf | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| AG002 | Area Group 2 | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Add New 1 of 1

Figure 2.20: Old design for listing page

Add/Edit Area Group

[General] [Advance] [User Definition]

Area Group Code *

Area Group Name *

Area Group Name 2

Area Group State

Area Group Sorting

Area Group Active ☒

Add Cancel

[General] [Advance] [User Definition]

Figure 2.21: Old design for maintenance page

Search Area Group

Area Group Code Area Group Name Active Record(s) In Row

Results In Excel ☐

Search

List of Area Group

Add New 1 of 1

| Area Group Code | Area Group Name | Area Group Name 2 | Area Group Status | Area Group Active | Area Group Sorting |
|-----------------|-----------------|-------------------|-------------------------------------|-------------------------------------|--------------------|
| AG001 | Area Group 1 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| AG002 | Area Group 2 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Add New 1 of 1

Figure 2.22: New design for listing page

Figure 2.23: New design for maintenance page

2.3.6 Overlapping Bugs (ID=50439 & 50743)

These bugs task is assigned to help in solving the overlapping word with another column which occur in the report. Figure 2.24 shows the problem found from QA Team. To solve the problem, it needs to add the overflow: hidden in the corresponding column in the template file as shown in Figure 2.25.

Date: 08/12/2023

Xeersoft Trading - QA Demo

Page: 1 of 1

Collection Report by Customer from 01/12/2023 to 31/12/2023

| Receipt Salesman | Invoice Salesman | Customer Name | Invoice Date | Invoice No | Invoice Amount | Receipt No. | Receipt Date | Knockoff Amount | Balance |
|-------------------------------------------|------------------|-----------------------|--------------|-----------------|----------------|----------------|--------------|-----------------|---------|
| CURRENCY : RM - MALAYSIA RINGGIT | | | | | | | | | |
| Customer : YXD001 - YX-Mick | | | | | | | | | |
| Anne Hathaway | Anne Hathaway | YX-Mick | 2023-12-08 | YXINV2312080002 | 100.00 | YXPR2312080002 | 2023-12-08 | 100.00 | 0.00 |
| Customer : YXD005 - YX Adam Richard Wiles | | | | | | | | | |
| YX Demetria Deme | YX Demetria Deme | YX Adam Richard Wiles | 2023-12-08 | YXINV2312080001 | 100.00 | YXPR2312080001 | 2023-12-08 | 100.00 | 0.00 |

Figure 2.24: Overlapping problem found in report

```

731 <!-- t_detail_line1 -->
732 <tr class="x1292239721" style="height:12.75pt" height=17>
733 <td colspan=10 class=x129223973><div align="left" style="overflow:hidden">{$data.slmn_name1}</div></td>
734 <td colspan=10 class=x129223973><div align="left" style="overflow:hidden">{$data.inv_slmn_name1}</div></td>
735 <td colspan=12 class=x1292239721><div align="left">{restrictsize arg1=$data.inv_dbtr_name1 arg2=15}</div></td>
736 <td colspan=10 class=x1292239721><div align="left">{$data.inv_transdate}</div></td>
737 <td colspan=9 class=x1292239721><div align="left">{$data.inv_refno}</div></td>
738 <td colspan=8 class=x1292239721><div align="right">{moneyFormat arg1=$data.inv_amount}</div></td>
739 <td colspan=9 class=x1292239721><div align="right">{$data.reference}</div></td>

```

Figure 2.25: Solution for overlapping bugs

2.3.7 Display Incorrect Behavior (ID=50452 & 50794)

These bugs are existing since the developer use the auto sort function in the listing. When the auto sort is true, “Total Matched” will not always fix at the top but will arrange

based on the alphabet. To solve this problem, it needs to change the auto sort to false. Figure 2.26 shows the bug occur in system and Figure2.27 shows the solution.

Figure 2.26: Display incorrect behaviour in system

```

110 var opt = new OptionTransfer("listbox_refno","s_hd_refno_list");
111 opt.setAutoSort(false);
112 opt.setDelimiter(",");
113 opt.saveRemovedLeftOptions("removedLeft");
114 opt.saveRemovedRightOptions("removedRight");
115 opt.saveAddedLeftOptions("addedLeft");
116 opt.saveAddedRightOptions("addedRight");
117 opt.saveNewLeftOptions("newLeft");
118 opt.saveNewRightOptions("s_hd_refno");
119
120 var opt1 = new OptionTransfer("listbox_dbtr","s_hd_dbtr_list");
121 opt1.setAutoSort(false);
122 opt1.setDelimiter(",");
123 opt1.saveRemovedLeftOptions("removedLeft");
124 opt1.saveRemovedRightOptions("removedRight");
125 opt1.saveAddedLeftOptions("addedLeft");
126 opt1.saveAddedRightOptions("addedRight");
127 opt1.saveNewLeftOptions("newLeft");
128 opt1.saveNewRightOptions("s_hd_dbtr");

```

Figure 2.27: Solution for the display incorrect behaviour task

2.3.8 SAP voucher amount enhancement (ID=50547)

This task is request by the client to enhance the voucher applied which will affect the price printed in the log file. Currently, the log file will be printed as the Figure 2.28 which the voucher amount is separated with the product. The client wish that the discount amount can be directly deduct on the product total amount.

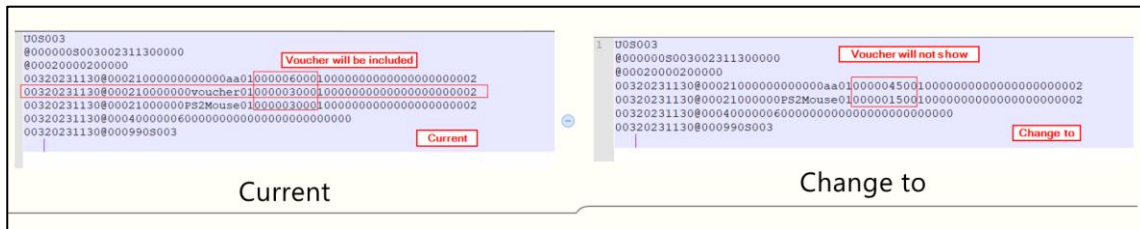


Figure 2.28: Comparison of the previous log file and current log file

To solve the problem, the system design is submitted which shown in Figure 2.29 to ensure that overall flow for the coding process is correct. The system design contains the logic to achieve the goal.

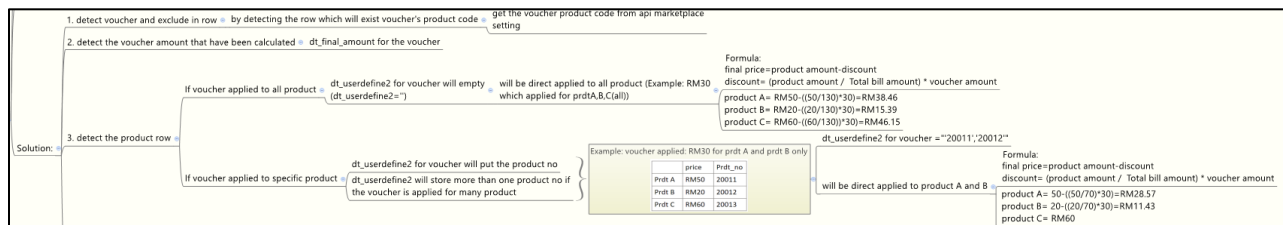


Figure 2.29: System design for SAP voucher amount enhancement task

2.3.9 Troubleshooting (ID=49850 & 50827)

Two troubleshooting tasks are assigned to check the causes of the problem exists, it may be fix or need to lock a new ask for the developer in order to carry out a new function. One of the task is about the zoom in our problem for the advance report. Since it was difficult to solve, the top management advise the user to use browser magnifier tool instead of using the system's zoom in out function. Another task is due to the wrong sequence on the variable declaration as the variable should be declared before used. The solution is moving the declaration before using it.

2.4 Hardware and Software Used

This section will describe some hardware and software that are required to use along the internship period.

2.4.1 Hardware

The hardware used is listed in Table 2.2.

Table 2.2: Hardware

| Name | Description |
|--------|------------------------------------------------------------------|
| Laptop | Processor: Intel Core i5 Memory: 4GB OS: Windows 10 64 bit |

2.4.2 Software

Several software is used in XeerSoft company to ensure all task can be undergoing smoothly as shown in Table2.3. Other than the programming software, the developer also requires to install the TestTrackClient and XMind 2013 to trace the overall progress and the coding logic.

Table 2.3: Software

| Name | Description |
|------------------------------|-------------------------------------------------------------------------------------------|
| Notepad++/Visual Studio Code | The integrated development environment (IDE) used for coding and programming |
| Perforce Visual Client(P4V) | The version control system which used to managing the changes of source code |
| TestTrack Client | The issue tracking system help to manage the testing process and monitor project workflow |
| SQLyog | The interface which used to manage MySQL to perform the task which related to database |

| | |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| XMind 2013 | The mind mapping software tool to help in visually organize the information and concept related to the client requirement |
| VMware workstation | The virtualization software which can run different operating systems on single host system |
| CodeCharge Studio | The web applications creator by generating code using various programming language |

2.5 Time Period to Complete All Tasks

The task assigned will together with the time period for the developer to do the task. It can be shown in the Man-hour column as shown in Figure 2.28. The higher man-hour will need more time to complete the task.

| | Number | Procedure Status | Summary | Man-... | Priority |
|---|--------|------------------------|-------------------------------------------------------------------------------------------------------------------|---------|---------------|
| ✓ | 50439 | Released | QA20231026 -001 Payroll - New/Resigned Employee - Category will overlapped with Date Joined | 1 | Low - 10 |
| ✓ | 50452 | Released | QA20231027 -001 Inventory - Void Backorder Item - Total Matched wording display in between the search results. | 1 | Low - 10 |
| ✗ | 50743 | Testing / Verification | QA20231208 -001 Accounting – Alignment Issues in Invoice Salesman Collection | 1 | Medium - 5 |
| ✗ | 50794 | Pair QC | QA20231214 -002 HupSoon - Inventory, Time Attendance, Payroll – Multiple Select Box Display Incorrect Behaviour | 2 | Medium - 7 |
| ✗ | 50346 | Released | Clarks - create 12 digits sku code customize data exchange - excel | 16 | Very High - 1 |
| ✗ | 50546 | Ready for Release | Yong Soon - add reset user serialise button at user group | 6 | High - 4 |
| ✗ | 50601 | Acceptance Test | Smarty Report - Save Format to add in save selection="no" for Month and multiplelistbox button(Accounting Report) | 16 | Medium - 5 |
| ✗ | 50610 | Testing / Verification | Thong Ler - Create normal scheduler and email scheduler batch file | 2 | Medium - 5 |
| ✗ | 50547 | Pair QC | Clarks - Clarks Inbound (XS Export) Sales & Sales Refund Tlog to SAP voucher amount enhancement | 8 | Very High - 1 |
| ✗ | 50662 | Testing / Verification | GP - Cross db table sync price category change input method from insert delete to update | 2 | Very High - 2 |
| ✗ | 50774 | Proceed | Accounting Master Layout Revamp - Deduction Type/ Agent/ Area Group/ Area/ Business Nature | 24 | Low - 10 |

Figure 2.30: Time Period to Complete All Tasks

2.6 Theoretical and Practical Knowledge

Within the internship period, the company provide the theoretical knowledge in database management system as the XeerSoft system function is integrate with the MySQL database. Some knowledge about the database concepts and the experience in using the MySQL command can help for future work. Besides, all knowledge about the programming language that had been learn in university such as HTML, CSS, JavaScript and PHP are applied in the job.

Next, the practical knowledge that can be gain from the internship in XeerSoft company is having the experience in the version control system. The task assigned will follow by its specific version. The version will release once a month for collaborative coding. Some technique on writing the code gained which enable to write more clean, efficient, and maintainable code compare to previous coding. Last but not least, the troubleshooting skill also can be learned when getting the bug task as it required the developer to troubleshoot the issues and find out the main reason for causing the bugs.

2.7 Problem Faced

The main problem faced is the structure of XeerSoft system as it is a brand-new system that never used. It contains of many functions such as the accounting part which is not familiar for those who are not understand on the accounting. Besides, since the system already hard to understanding, it become the problem when assign a new task as no idea carry out regarding to the solution. Some of the tasks will be a new requirement from client so sometimes will confuse on the client requirement when the project manager did not provide the detail for the task.

Therefore, keep asking senior is the main way to solve all the problem. After getting the basic understanding from senior, it requires to do self-explore on the system for more understanding on how to interact with the function and using the data. When facing some uncertain question about the client data, the senior developer will suggest to discuss with project manager to get confirmation. If they are not able to answer, they can help to ask the client for more accurate result.

2.8 Conclusion

This chapter has discussed about the objectives, tasks that had been assigned and the tools that are required in the internship period. In conclusion, internship in this

company had learn a lot of knowledge and also able to applied the knowledge through the real-time task.

CHAPTER 3

OVERALL INFORMATION OF INDUSTRIAL TRAINING

3.1 Introduction

This chapter will discuss about the overall skill that had gained within the internship period. The reference materials and constructive comments also discussed in this chapter.

3.2 Skills Improvement

Over the past 20 weeks of my internship, I have learned a lot of knowledge and skill from my supervisor and other senior developer when conducting the task given. This experience equips me for future career challenges, providing insights into handling real-time tasks and the ways to collaborate with the project manager in order to fulfil the client requirement.

3.2.1 Programming Skills

Programming skills are skills that will be applied every day if undergo an internship in a company which related to programming. During the internship period, I gained some experience in applying the skills learned in university to real-life work. Since the programming language is an endless study, I have explored different programming languages especially JavaScript and PHP since these programming languages will be related to a lot of functions for the web page to operate. This helped me improve my

programming skills and can understand and use the programming language when solving the task.

3.2.2 Task Management Skills

From the various types of assigned tasks, I learned to handle the task using different ways. For the new requirement task, the developer must fully understand the client's requirement and ask the project manager when facing the problem of unclear information. Besides, the developer is also required to carry out the system design so this can give me more clear direction on solving the task.

All the tasks will be given their specific time and priority. To ensure the task can be finished as soon as possible, I need to arrange the time to complete the task based on priority as some of the task is emergency from the client side and should be directly solve. It also requires time planning to make sure all the tasks can be completed in the time given.

3.2.3 Problem Solving Skills

I also gained the skill of problem-solving as some of the bug tasks were assigned to me to check the problem. From the bugs task, I need to track where is the cause of the problem and think about the ways to solve it. It is also important in another new requirement task since I faced many problems due to the unfamiliarity of the system. I had asked the senior to get some hints on understanding the system setting and try to apply the solution in the local host. Besides, I also try to find out the solution before asking questions to get some idea on the task. This helps me a lot in getting clearer configuration when the supervisor explains to me.

3.3 Reference Materials

During my internship, I had a variety of useful reference materials that significantly supported my learning journey. For example, the XeerSoft Knowledge Base website helped me in understanding the system function better. I frequently consulted the coding standard which clarified complex concepts and offered some examples to ensure that all the platform can use the code. Online tutorials, especially those from platforms like W3School and XeerSoft tutorial video were instrumental in guiding me through coding challenges with step-by-step explanations. These resources were like helpful companions, making it easier for me to grasp new concepts and apply them to the tasks at hand.

3.4 Constructive Comments

Throughout my internship, I was fortunate to work in XeerSoft as they are willing in sharing their knowledge and providing guidance to ensure that our code was not only correct but also clean. They had lots of experience, bringing different coding solutions and approaches that opened my eyes to new possibilities. The tasks we were given during the internship were carefully matched to our skill levels and provided a valuable learning experience. This thoughtful approach allowed us to tackle challenges that were challenging enough to promote growth but still within our reach, contributing to a positive and enriching learning environment. This supportive environment made the internship a great opportunity for growth.

3.5 Conclusion

In conclusion, this chapter focused on the improvement of skills during the internship, the usefulness of reference materials for handling tasks, and the incorporation of constructive comments. These elements collectively contribute to a comprehensive understanding of the learning experience during this period.

CHAPTER 4

CONCLUSION

4.1 Introduction

In this chapter, the overall achievement will be discussed to summarize all the skills and techniques learned within these 20 weeks. Additionally, the problems and execution will be mentioned to provide insight into the challenges faced during task completion. Lastly, opinions and suggestions will be discussed in the final section of this chapter.

4.2 Overall Achievement

In the 20 weeks of my internship, I acquired a wealth of knowledge and practical skills. Before this, my programming knowledge came from books, and I hadn't applied it in real life and lacked experience in handling tasks related to programming. After I had done a few tasks assigned by the company, I realised that we need to think from different perspectives no matter the solution and the problem since the coding is very flexible.

For the first 3 weeks, I was still curious about the system function because the XeerSoft system contains many parts such as the POS system and Middleware that were never discovered in our study. Therefore, I spent a lot of time exploring and understanding the system and its settings to get the desired results. I also learned to know all the procedures before starting a task to make sure my solution works in the current system.

After that, I have some experience in finding the required information from their knowledge base and the backend database. This helps me on easier to understand the task and client requirements so that I can complete the task in the given time. However, some of the tasks require us to make changes to the existing code. Therefore, I still need to ask the senior to find out the code that should make changes as a new bug might appear if we change the code without knowing the function.

One significant achievement was seeing tasks go live on the client-server. All the submitted tasks need to do pair QC and testing before being released to the server. If the QA team finds any issues, they will give feedback to me to make some changes. I needed to make corrections until the code passed testing. The task was deemed complete only after each testing phase was successful, and no issues remained.

Finally, I got to learn various programming languages in these 20 weeks. For example, I used JavaScript and PHP to code the new function with the HTML page. This experience taught me how to use different languages to finish a task.

4.3 Problem and Execution

The most significant challenge I faced was the unfamiliarity with the system since I am lack of experience on using it. I had to take a systematic approach to learn its functions step by step, ensuring a correct understanding of all procedures. Moreover, the coding tasks presented some challenges as I needed to grasp the solution flow thoroughly to guarantee the smooth execution of the code.

4.4 Opinion and Suggestion

In my opinion, the internship overall was a positive experience, and I encountered no major issues. The staff members were consistently friendly and supportive, creating a welcoming work environment. I am appreciating for the valuable opportunity to undertake

my internship here. This experience has played a key role in my professional growth by offering a great learning environment. In conclusion, my time during the internship was constructive, and the supportive environment played a big part in my learning and personal growth.

4.5 Conclusion

In summary, this chapter was discussing the overall achievement, problem and executive and opinion and suggestion which face along the industrial training. Participating in industrial training provide the hands-on experience which offers a practical dimension to theoretical knowledge acquired in classrooms. In a nutshell, industrial training not only helps students in their studies but also plays a big part in their overall growth, making them better prepared for the job market.

REFERENCE

XeerSoft (2021). Retrieved October 25, 2023, from <https://xeersoft.com/> .

Notepad++ vs Visual Studio Code | What are the differences? (2020). Retrieved December 17, 2023, from <https://stackshare.io/stackups/notepad-plus-plus-vs-visual-studio-code#:~:text=In%20summary%2C%20while%20Notepad%2B%2B,a%20larger%20community%20for%20support.&text=Lightweight%20and%20versatile.>

Appendix A Industrial Training Checklists (Placement)

INDUSTRIAL TRAINING CHECKLISTS (PLACEMENT)

| No. | Activities/Tasks | Tick (√) | Endorse by and date |
|-----|------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|
| 1. | Report Duty To The Organization Approved by faculty | √ | |
| 2. | E-mail Report Duty Verification (BLI-1D) to faculty supervisor. | √ | |
| 3. | Upload Report Duty Verification (BLI-1D) in e-learning for course code SCS*4114. | √ | |
| 4. | Contact faculty supervisor to inform the job scope and organization information | √ | |
| 5. | Fill in organization supervisor information survey in ITS | √ | |
| 6. | <i>Update of Industrial Training site (address). Inform faculty supervisor and JKL, if any changes.</i> | | |
| 7. | Updating Industrial Training Logbook online – daily basis | √ | |
| 8. | Ensure that organization supervisor able to login to ITS successfully (Organization supervisor get ITS userid and password). | √ | |
| 9. | Faculty Supervisor Visit. Date: | √ | |
| 10. | Industrial Training Presentation. | √ | |
| 11. | Performance evaluation by organisation supervisor. Online or <i>submission BLI-2B during supervisor visit.</i> | √ | |
| 12. | Submission of Industrial Training Logbook. | √ | |
| 13. | Submission of Industrial Training Report with checklist and achievement form as Appendix. | √ | |
| 14. | Fill in Industrial Training Performance Evaluation by student (BLI-1E) in ITS. | √ | |
| 15. | End Industrial Training | √ | |

Note:

1. Italic activities are optional depending on student situation.

Appendix B Industrial Training Achievements



Sekretariat Latihan Industri
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INDUSTRIAL TRAINING ACHIEVEMENTS

(This form must be filled by student and must be attached in the Industrial Training report)

Student's Name : Zereen Teo Huey Huey


Organisation : XeerSoft Sdn Bhd

| No. | Task (List all tasks have been completed) | Month of Task Achieved | | | | |
|-----|-----------------------------------------------------------|------------------------|---------|---------|---------|---------|
| | | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 |
| 1 | Training Week | √ | | | | |
| 2 | Hotel Master Assignment | √ | | | | |
| 3 | #50346 – Customize data exchange | √ | √ | | | |
| 4 | #50439 – Category overlapped with Date | | √ | | | |
| 5 | #50452 – Total Matched wording display | | √ | | | |
| 6 | #50546 – Add reset user serialize page | | √ | √ | | |
| 7 | #50547 – SAP voucher amount enhancement | | | √ | | |
| 8 | #50601 – Saveselection= “no” for save format | | | √ | | |
| 9 | #50610 – Create normal scheduler and email scheduler | | | | √ | |
| 10 | #50743 – Alignment Issues for Invoice Salesman Collection | | | | √ | |
| 11 | #50794 – Multiple selectbox display incorrect behaviour | | | | √ | |
| 12 | #50774 – Accounting Master Layout Revamp | | | | √ | √ |
| 13 | #49850 – Advance Report freeze column title issue | | | | | √ |
| 14 | #50827 – Product Rico Page show different value | | | | | √ |

| Deliverable/Training reflection (Outcomes that have been achieved) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The main achievement is do the enhancement on the XeerSoft system. From the experience gained, I able to handle different real task which cover many part of the system and understand on the logic for the system to undergo the function. Besides, I also experienced in finding the root cause for the bugs task and carry out the solution to solve the bugs.</p> <p>The industrial training program at XeerSoft provided me the ability to handle the real client task and get enhance my skill from several parts which are required for my future career.</p> |

Student Signature: _____

Date: 18/1/2024

| Approval | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <p>Organisation's Supervisor:</p> <p></p> <p>.....</p> <p>(Signature)</p> <p>Name: Hoe Leng Wee Date: 18/1/2024</p> | <p>Faculty Supervisor :</p> <p>.....</p> <p>(Signature)</p> <p>Name: Date:</p> |