UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SECD 2613 - System Analysis and Design

PROJECT PHASE 3

PROJECT NAME: INTERN DOCTOR

LECTURER: DR. SHARIN HAZLIN HUSPI

SECTION: 01

GROUP 5

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1. OVERVIEW OF THE PROJECT

Nowadays, students have more convenient ways to apply for their internship through an online platform provided by the university. The functionality of an industrial training system is critical in helping students, administrators and companies to manage the process of internship of students holistically.

Our proposed system is to improve the current industrial training system by adding several features. Firstly, both company and administrator may observe the status of students mutually to make sure their internships are progressing well in respective companies. This mutual interaction enables companies to obtain the resume of students conveniently during the application period and filtration of students' applications can be done easily to make sure there is no overlapping employment at the same time. Moreover, administrators are able to filter out the unreputable and untrusty companies from the application list by verifying the background of the company before approving the registration of the company into the system in order to ensure students apply for legitimate companies. This system also makes the communication between administrators and students become easier.

Besides, progress bars of approval and reminder functions are also added to ease student preparation. The students can easily visualize the approval of their application and always check for their readiness in preparing the important documents such as approval letter. The reminder will remind students about the important dates such as the due date of application for companies.

In addition, one of the new features which is the company advertisement interface in this proposed system enables the companies to promote themselves and let the students have further understanding about the company before applying. Meanwhile, the chances

for students to get offered will increase. Students are also able to check the employment history of companies.

In conclusion, the Intern Doctor system provides an excellent platform for users such as administrators, supervisors, students and companies to communicate between each other effectively. The new and advanced functionality in the system will enhance the user experience and increase their satisfaction when using this system. The profits gained from the advertisement fee will also help in reducing the maintenance cost. Undeniably, our system will definitely bring a lot of benefits to every user.

2. PROBLEM STATEMENT

The first issue with the Universiti Teknologi Malaysia's Industrial Training System system is that it does not provide a platform for both data administrators and the company to observe each other. The data administrators are unable to observe the company to which the students have applied, while the company is unable to obtain the student's resume. This is significant because students may be involved in job scams and go unnoticed, while the company is unable to select students based on their preferences. Second, the system does not provide a progress bar for students to see whether or not their application has been approved. Third, this system does not provide students with reminder settings such as application due date, number of applications for documents, and so on. This makes it difficult for students to locate themselves in the systems.

Next, the system does not provide an interface through which the company can advertise itself. The advertisements are capable of providing opportunities for students to easily find internships while also assisting the company in promoting themselves among students. Furthermore, the system does not provide a communication interface for the company, data administrator, and students to communicate with one another, where students can send their resumes or chat with the company directly. Furthermore, the

system does not provide an interface for the company to conduct online interviews or pitch sessions with students. Last but not least, students are unable to demonstrate a history of internship employment in some of the system's companies. This makes it difficult for students to demonstrate their abilities and makes it difficult for companies to select them for internships.

3. PROPOSED SOLUTION

The system we are developing will aid in the resolution of the system's problem. The system will serve as a communication platform for companies, data administrators, and students. This platform enables companies to promote themselves through advertisements, while students can submit their resumes if they are interested in working for the company. Besides, the advertisements will be filtered so that they include the company's organisation, general information, and vacancy information. This will prevent the platform from displaying pointless advertisements. However, the system is only available to registered companies. Before their registration is approved, the company's background will be investigated. The investigation is carried out by verifying the company identification through Suruhanjaya Syarikat Malaysia (SSM).

Furthermore, this platform allows data administrators to monitor the company's integrity, while the company can obtain resumes dropped by students. This platform also allows for online session interviews or pitching sessions to be held in order to interview students. Aside from the multifunctional platform in the system, the system developed has improvements in system documentation where students can display their internship employment history. Finally, the application letter will include a progress bar that will inform students whether their application has been approved or rejected. When a student's application status changes, either approved or rejected, they will receive an email notification. If students fail to apply the document before the deadline, the system will send a reminder via email to them.

4. CURRENT BUSINESS PROCESS/WORKFLOW

Third year UTM students must undergo industrial training. After completing their final year project 1 and owning at least 90 credits, students will be enrolled in the UTM Industrial Training System. After students have access to the Industrial Training System, students need to update their personal information such as name, matric ID, IC number, email, address, phone number and more. Students also need to update their own IC size photo for others to recognize. After filling the personal details, then students need to upload the resume.

After updating all the personal details and uploading the important files, students have to identify the internship company. First, students have to search for the company they wish to apply to. After choosing the suitable internship company, students need to fill in the BLI-1C form and attach the organization's profile. Students can choose a maximum of three internship companies. BLI-IC form is the details of the company that students need to fill in. Students send an email to the administrator after filling in the BLI-1C form. Then, the supervisor will determine whether the request of the students will be approved or rejected. Students have to update the checklist file in Google Drive for the administrator to know which companies have been applied by students and which companies have been rejected by students.

Then, students need to obtain a verification letter from the administrator. Sending the email that contains a filled verification letter, BLI2A form and student's resume to the internship company and administrator. If the students get the offer letter from the company, students must upload the proof of application in Google Drive. If the application had been rejected by the applied company, students need to obtain the evidence of rejection from the applied company, and upload the proof and update the checklist in Google Drive. Then, students must notify the administrator so that the supervisor can change the student's status. Now, students need to search for a new company and repeat the above process. If students wish to reject the application that has

been made, students have to email the administrator by providing the reason for the withdrawal. Students can withdraw the application after getting the permission of the administrator.

After finishing the above process, students can prepare themselves for the internship in the applied company.

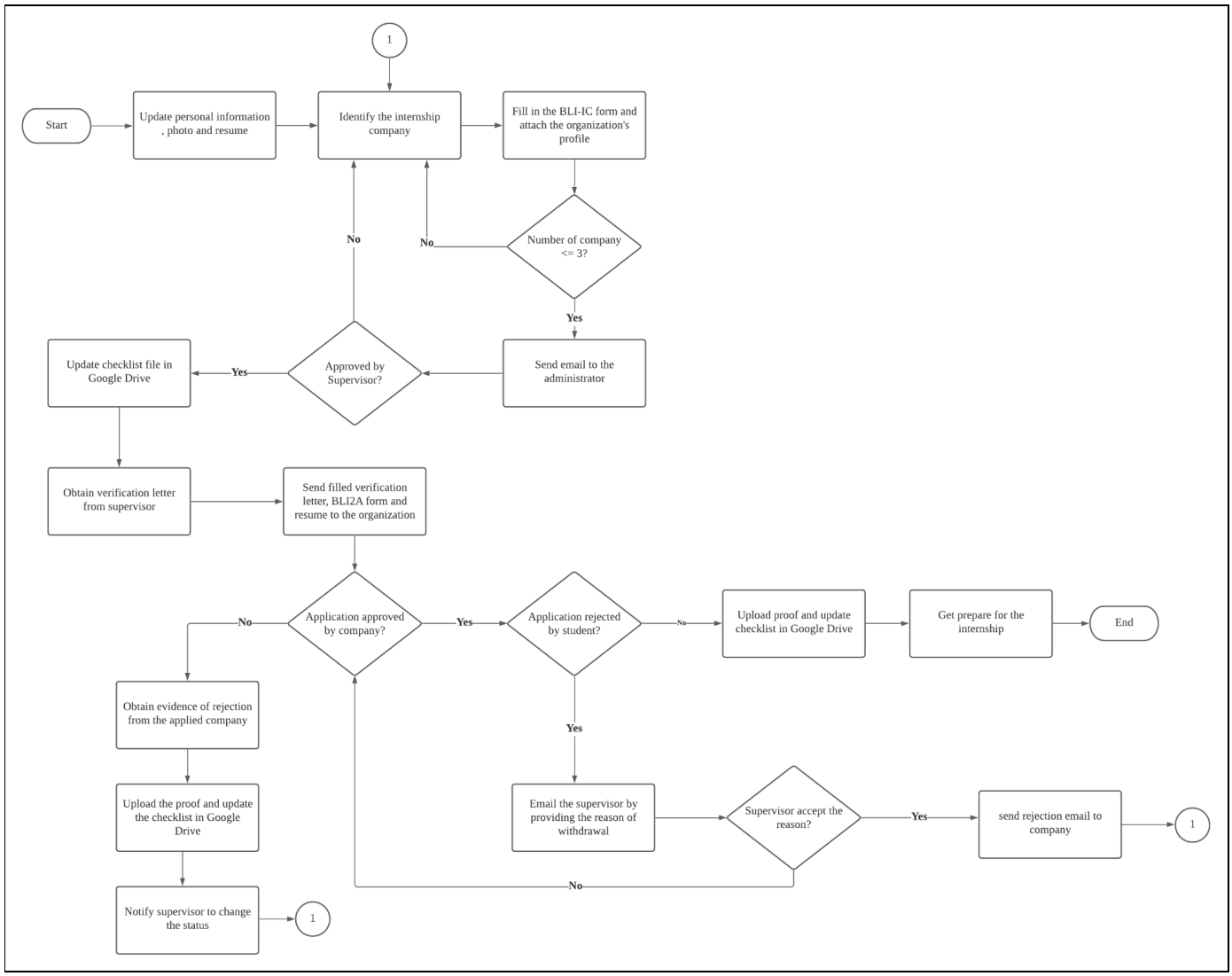


Figure 1:Current Workflow

5. LOGICAL DFD AS-IS SYSTEM

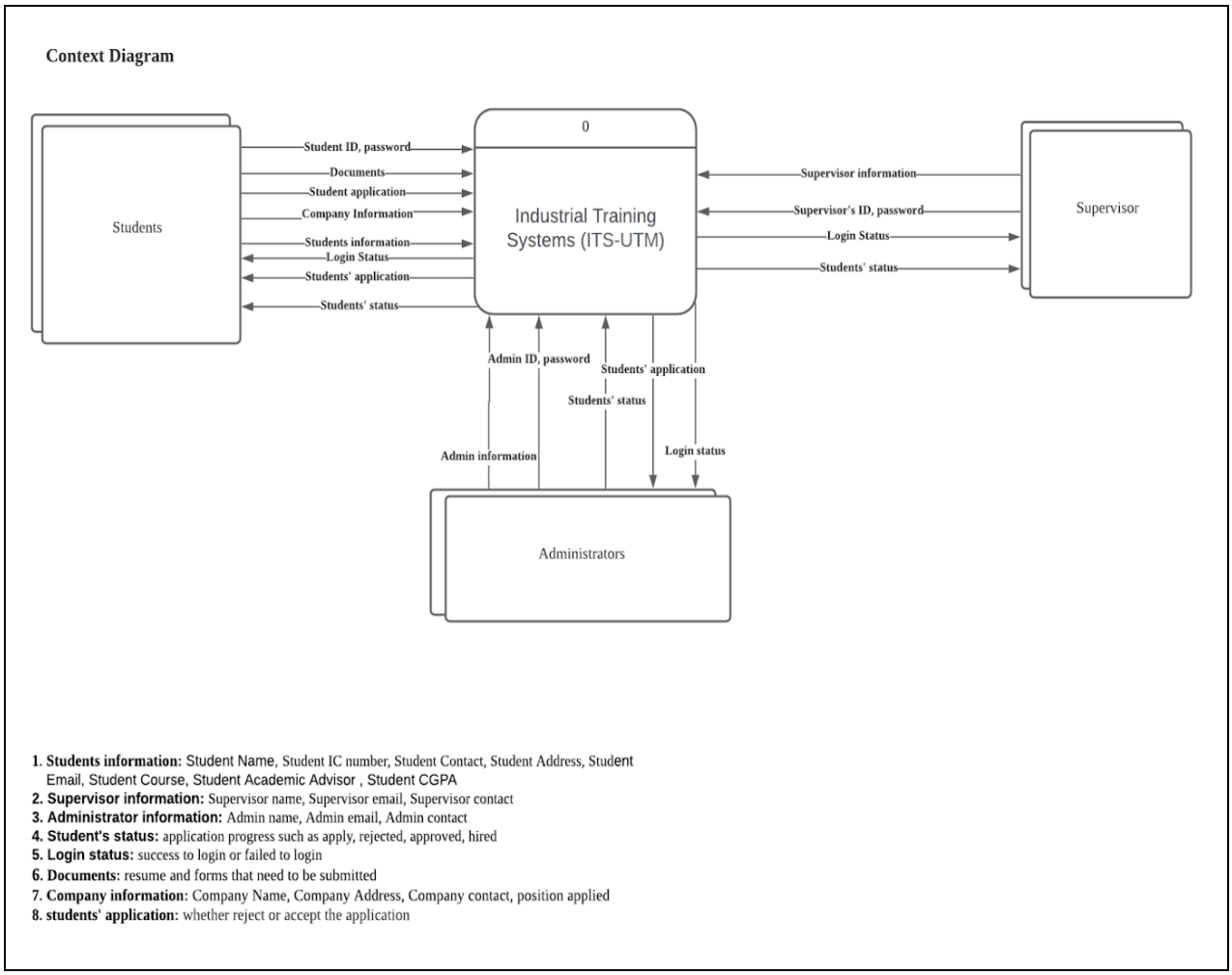


Figure 2: Context Diagram of current system

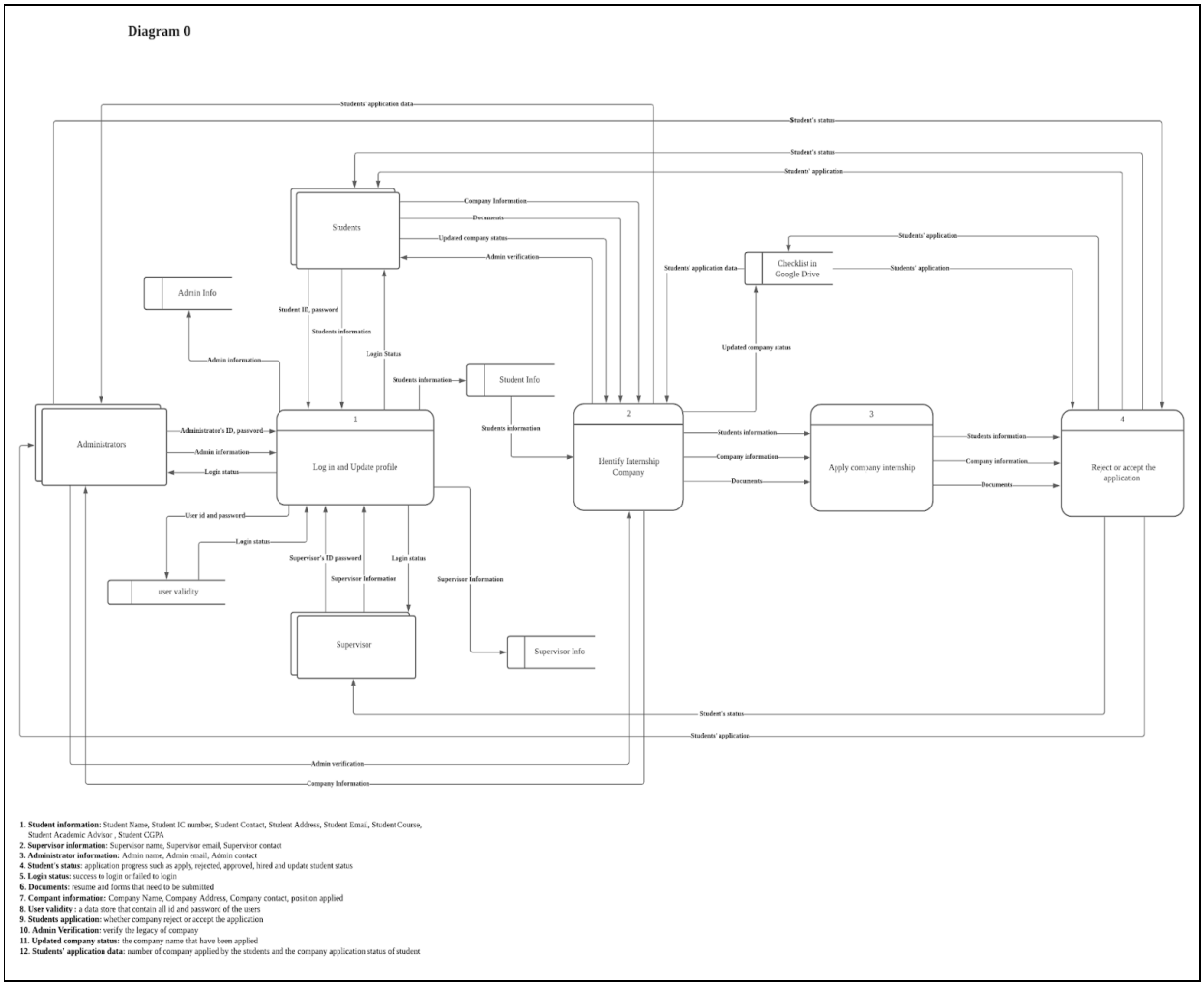


Figure 3: Diagram 0 of current system

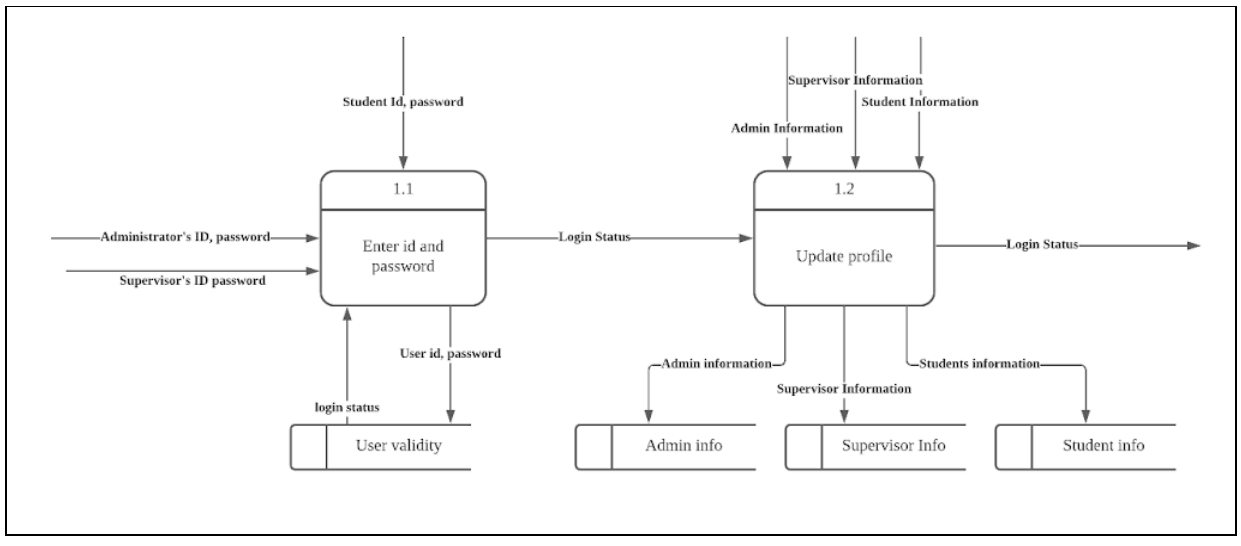


Figure 4: Child diagram for process 1

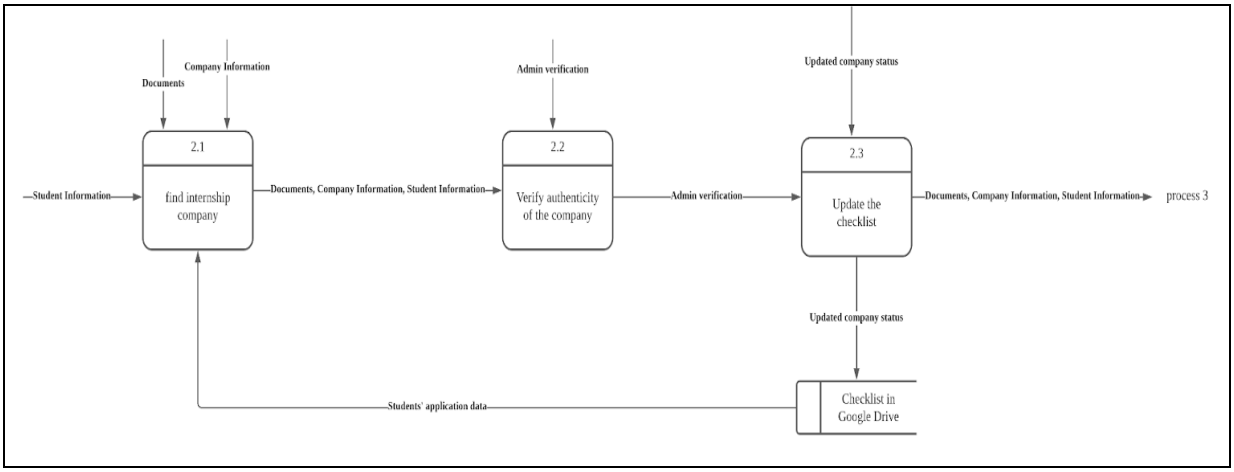


Figure 5: Child diagram for process 2

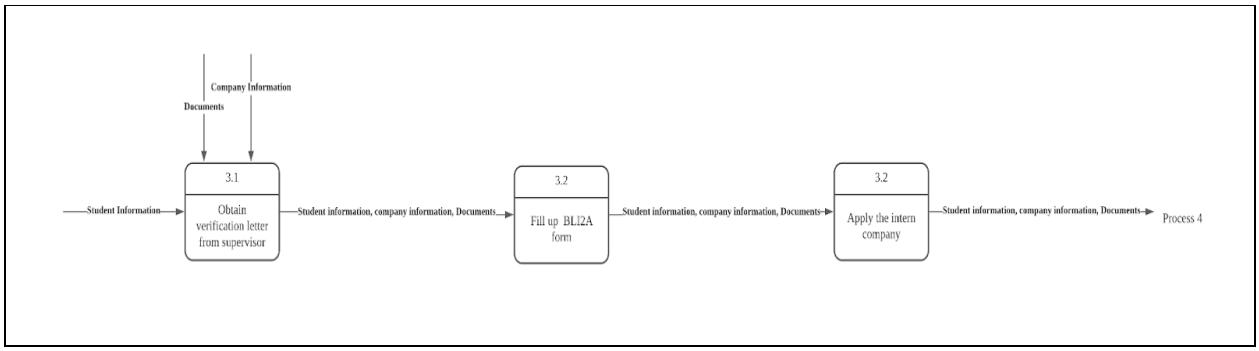


Figure 6: Child diagram for process 3

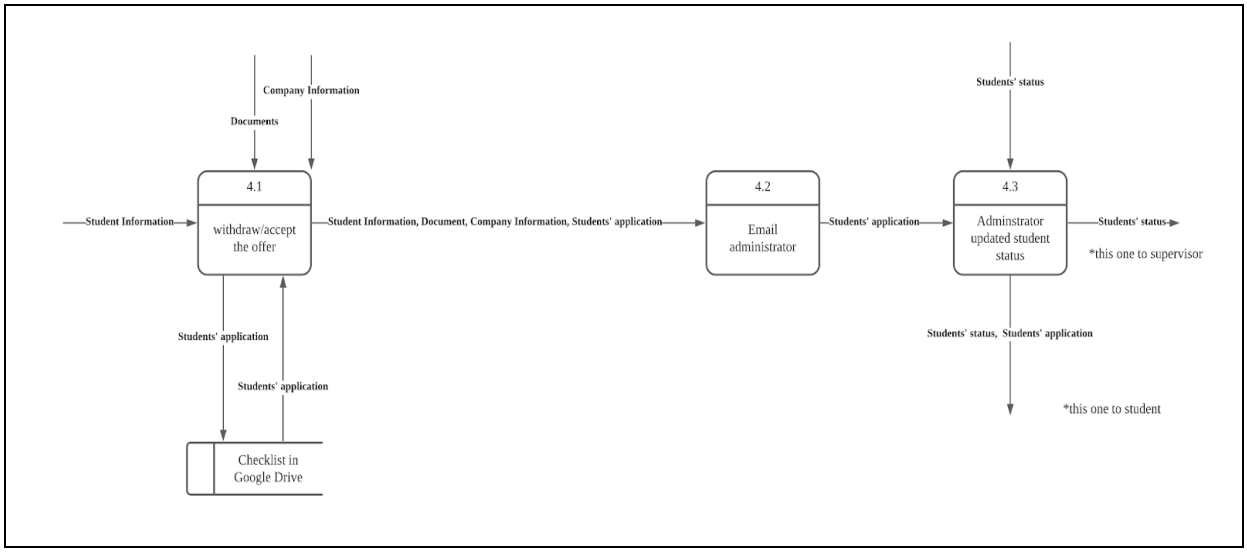


Figure 7: Child diagram for process 4

6. SYSTEM ANALYSIS AND SPECIFICATION

6.1. LOGICAL DFD TO-BE SYSTEM

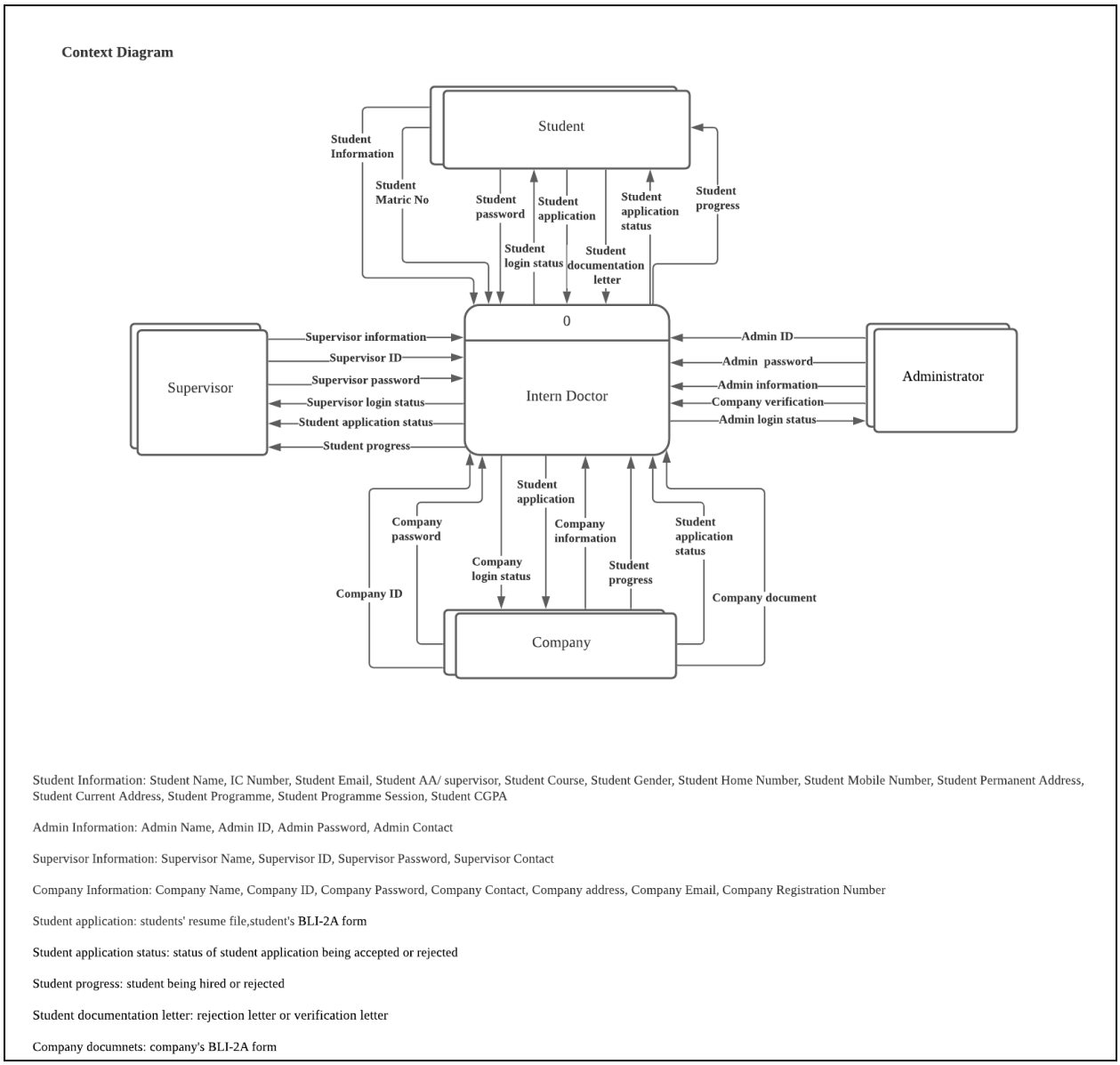
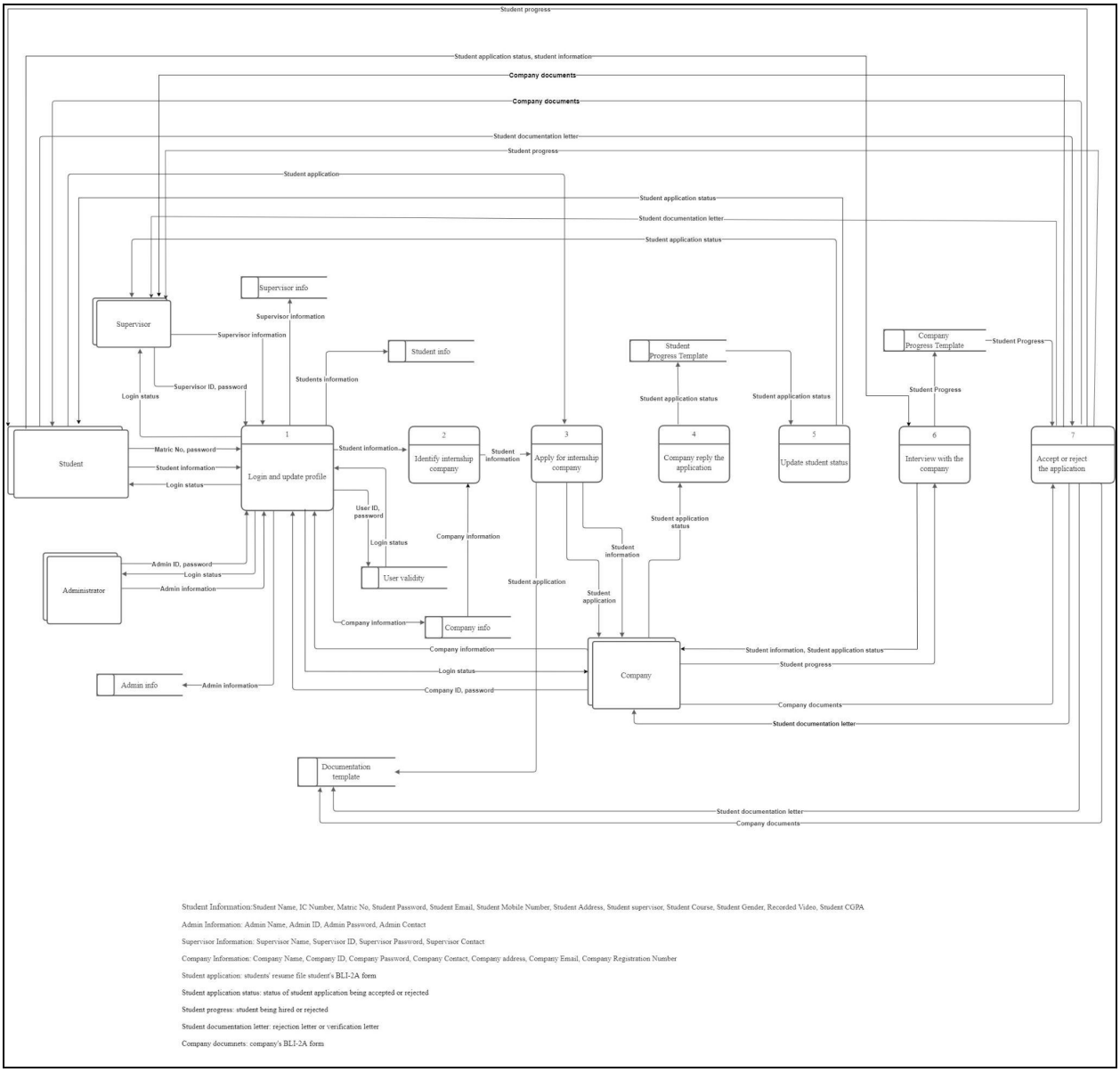


Figure 8: Context diagram of TO-BE SYSTEM



Student Information:Student Name, IC Number, Matric No, Student Password, Student Email, Student Mobile Number, Student Address, Student supervisor, Student Course, Student Gender, Recorded Video, Student CGPA

Admin Information: Admin Name, Admin ID, Admin Password, Admin Contact

Supervisor Information: Supervisor Name, Supervisor ID, Supervisor Password, Supervisor Contact

Company Information: Company Name, Company ID, Company Password, Company Contact, Company address, Company Email, Company Registration Number

Student application: students' resume file student's BLI-2A form

Student application status: status of student application being accepted or rejected

Student progress: student being hired or rejected

Student documentation letter: rejection letter or verification letter

Company documnets: company's BLI-2A form

Figure 9: Diagram 0 of TO-BE SYSTEM

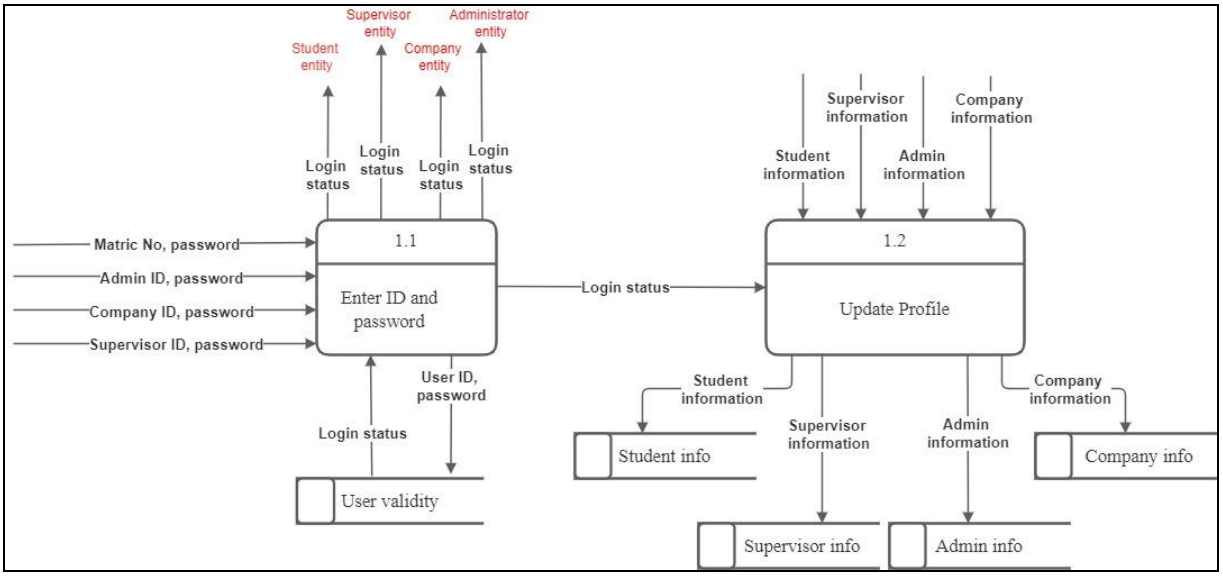


Figure 10: Child diagram for process 1

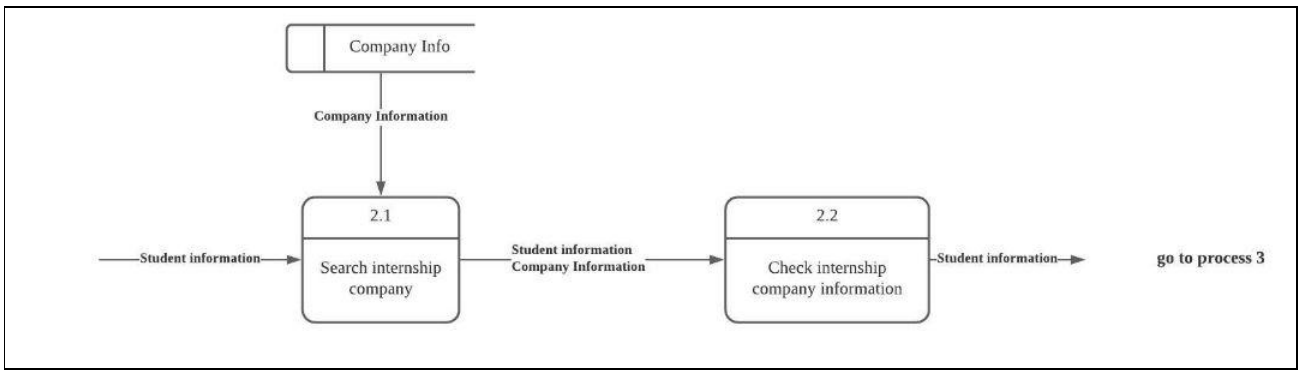


Figure 11: Child diagram for process 2

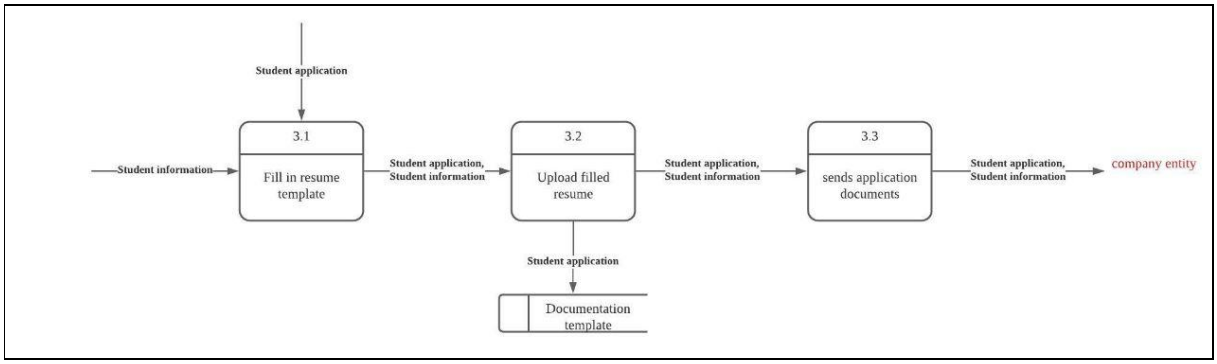


Figure 12: Child diagram for process 3

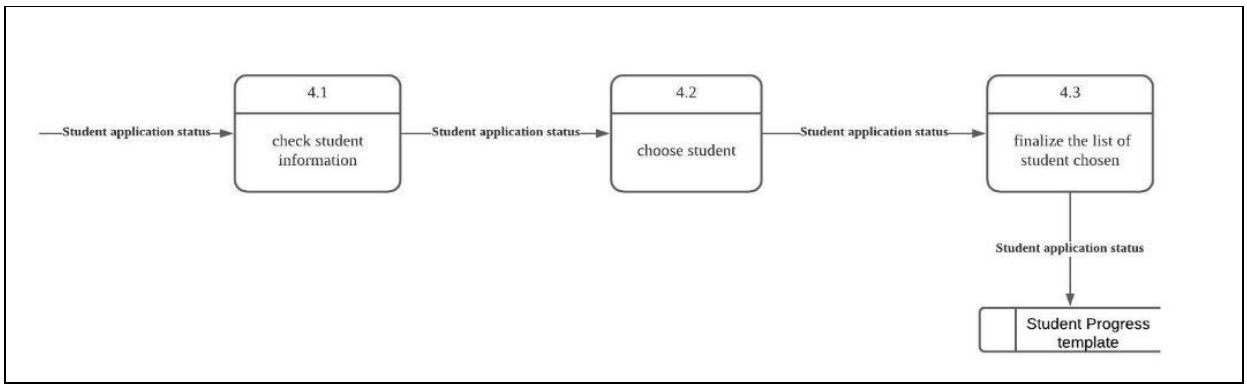


Figure 13: Child diagram for process 4

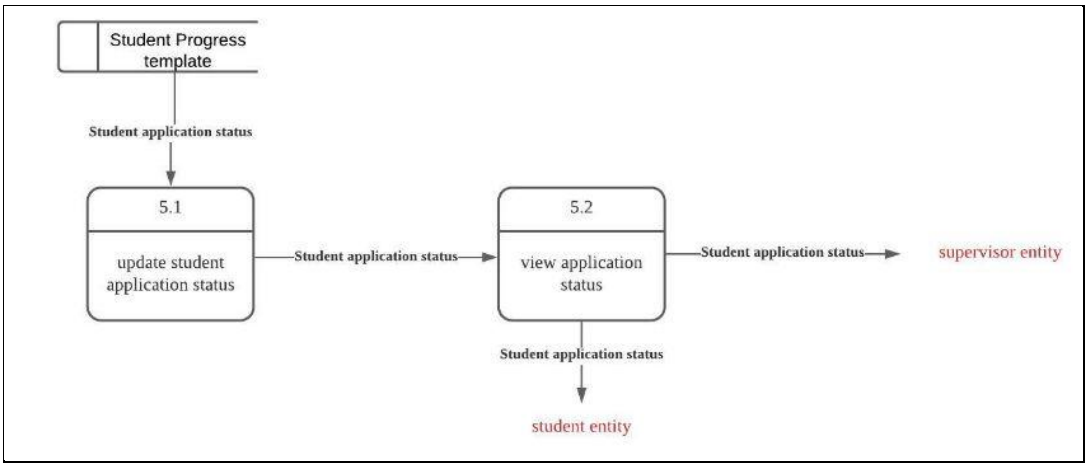


Figure 14: Child diagram for process 5

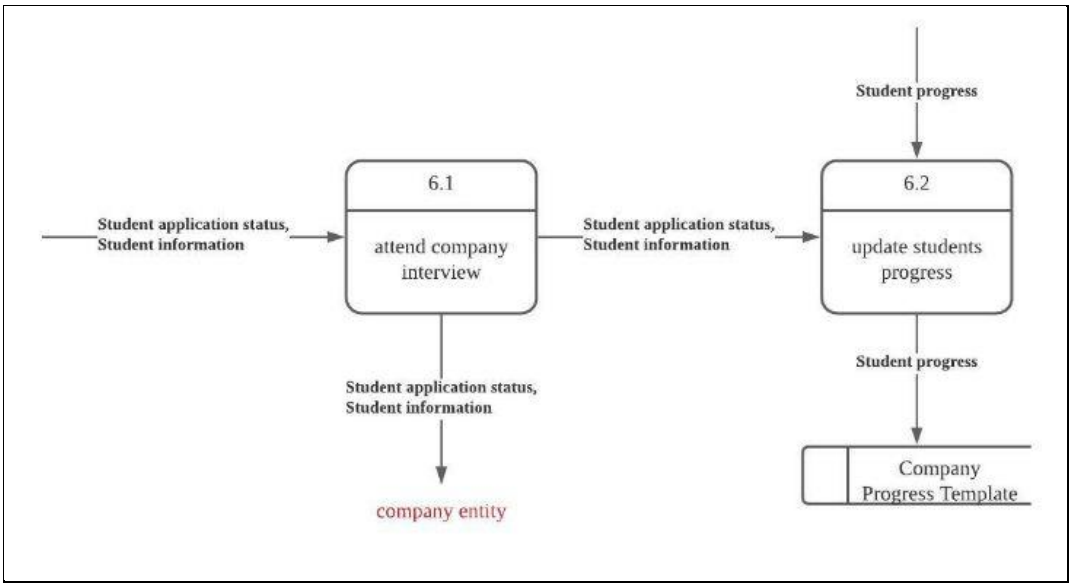


Figure 15: Child diagram for process 6

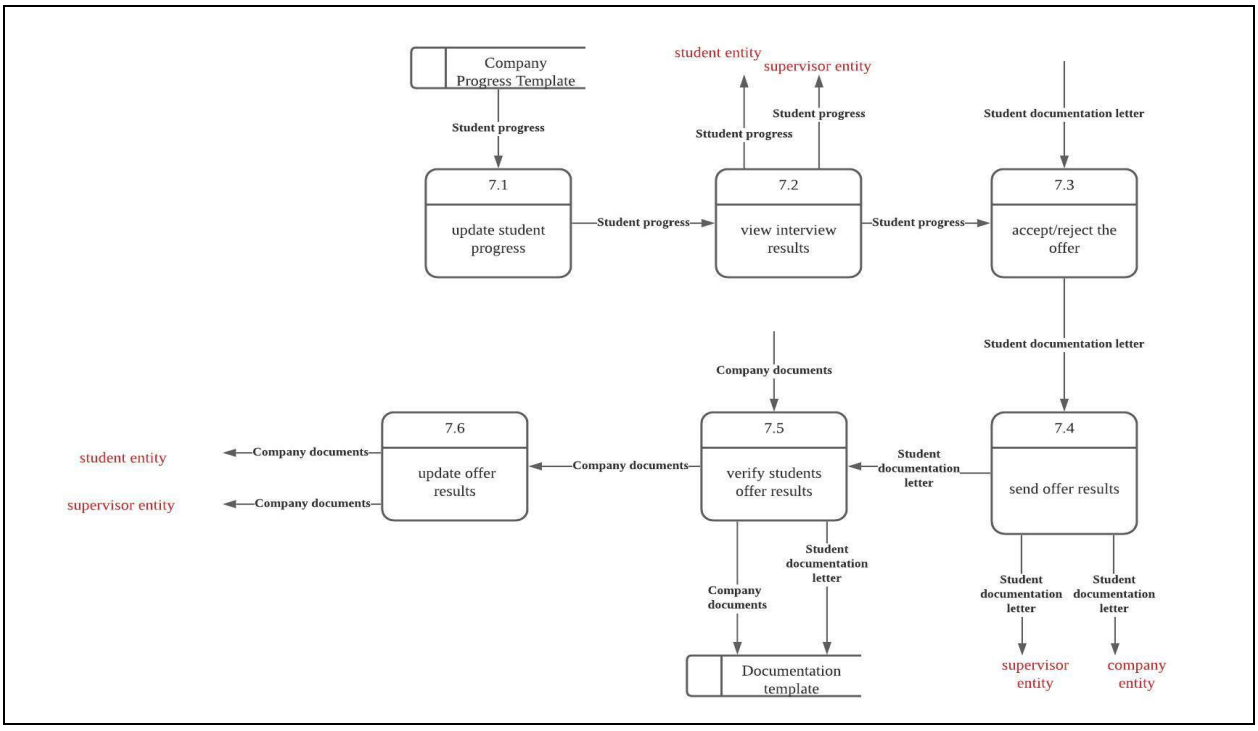


Figure 16: Child diagram for process 7

6.2. PROCESS SPECIFICATION

Process No.	1
Process Name	Login and update profile
Description	User login the system and update their information
Input Data Flow	1. Student a. Matric No, password b. Student information such as name, IC, address, etc. 2. Supervisor a. Supervisor ID, password b. Supervisor information such as name, contact number, etc. 3. Admin a. Admin ID, password b. Admin information such as name, contact number, etc. 4. Company a. Company ID, password b. Company information such as name, registration number, etc. 5. User Validity a. User ID, password
Output data Flow	1. Student a. Student information 2. Supervisor a. Supervisor information

	3. Admin a. Admin information 4. Company a. Company information 5. User Validity a. Login status
Type of Process	Manually done by user by entering ID and password and automatically check by system
Process Logic READ User ID and password READ User details	
Refer To	Structured English
Unresolved Logic	If a user does not have an id and password, how do they enter the system?

Process No.	2
Process Name	Identify internship company
Description	Students search for the internship company which fulfills the requirement.
Input Data Flow	Student information, Company Information
Output data Flow	Student information
Type of Process	Manually done by student to search the company in the system

Process Logic READ company information READ student information	
Refer To	Structured English
Unresolved Logic	How if students want to apply for the company out of system?

Process No.	3
Process Name	Apply for internship company
Description	Students apply to the company by uploading the resume file
Input Data Flow	1. Student information 2. Student application a. Resume file
Output data Flow	1. Student information 2. Student application
Type of Process	Manually done by students in the system
Process Logic READ documentation file READ student information DO store student application in documentation template data store	

Refer To	Structured English
Unresolved Logic	-

Process No.	4
Process Name	Company reply the application
Description	Company checks for the resume file uploaded by students and gives response
Input Data Flow	Student application status
Output data Flow	Student application status
Type of Process	Manually done by companies to change the student status such as rejected, interviewed or accepted.
Process Logic READ student application status DO store student application status in student progress template data store	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	5
Process Name	Update student status
Description	System update student status after detecting student application status to be viewed by students and supervisors
Input Data Flow	Student application status
Output data Flow	Student application status
Type of Process	Automatically
Process Logic CREATE student application status	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	6
Process Name	Interview with the company
Description	Student having an online interview session with company after getting the notification as “interviewed”
Input Data Flow	Student application status, student information, student progress
Output data Flow	Student application status, student information, student progress

Type of Process	Online
Process Logic READ student information DO update student application status DO update student progress	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	7
Process Name	Accept or reject the application
Description	1. Company accept or reject the application made by student 2. Student wish to reject the application
Input Data Flow	1. Student progress 2. Company documents a. BLI-2A form 3. Student documentation letter a. Verification letter
Output data Flow	1. Student progress 2. Company documents a. BLI-2A form 3. Student documentation letter a. Verification letter

Type of Process	Manually done by companies and students in the system
Process Logic READ documentation file DO update student progress DO store documentation file in documentation template data store	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	1.1
Process Name	Enter ID and password
Description	User login the system
Input Data Flow	1. Student a. Matric No b. password 2. Supervisor a. Supervisor ID b. password 3. Admin a. Admin ID b. password 4. Company a. Company ID b. password 5. User Validity

	a. User ID b. password
Output data Flow	Login status
Type of Process	Manually done by user to enter the ID and password
Process Logic DO READ User ID, password BEGIN IF IF user ID and password are FOUND in User validity data store RETURN Login status ELSE RETURN user NOT FOUND END IF	
Refer To	Structured English
Unresolved Logic	If a user does not have an id and password, how do they enter the system?

Process No.	1.2
Process Name	Update Profile
Description	User update their profile
Input Data Flow	1. Student a. Student information 2. Supervisor a. Supervisor information

	3. Admin a. Admin information 4. Company a. Company information 5. Login Status
Output data Flow	1. Student a. Student information 2. Supervisor a. Supervisor information 3. Admin a. Admin information 4. Company a. Company information
Type of Process	Manually done by user to update their information
Process Logic READ User details DO store user details in each user's data store	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	2.1
Process Name	Search internship company
Description	Students search company they wish to apply

Input Data Flow	Student information, Company information
Output data Flow	Student information, Company information
Type of Process	Student information retrieved from data store named Student info Company information retrieved from data store named Company Info
Process Logic READ student information SEARCH company based on company information	
Refer To	Structured English
Unresolved Logic	How if students want to apply for the company out of system?

Process No.	2.2
Process Name	Check internship company information
Description	Students check company information
Input Data Flow	Student information, Company information
Output data Flow	Student information
Type of Process	Manually done by students in the system
Process Logic	

READ company information	
Refer To	Structured English
Unresolved Logic	How if students want to apply for the company out of system?

Process No.	3.1
Process Name	Fill in resume template
Description	Students fill in the resume template download from the system
Input Data Flow	Student information Student application
Output data Flow	Student information Student application
Type of Process	Manually done by students in the system
Process Logic READ student information UPLOAD resume file READ resume file	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	3.2
Process Name	Upload filled resume
Description	Students upload filled resume to the Documentation template data store
Input Data Flow	Student information Student application
Output data Flow	Student information Student application
Type of Process	Manually update the student application by students
Process Logic DO READ student information IF student choose suitable company READ student application DO store student application in Documentation template data store END IF	
Refer To	Structured English
Unresolved Logic	-

Process No.	3.3
Process Name	Sends student application

Description	Company received resume uploaded by students
Input Data Flow	Student information Student application
Output data Flow	Student information Student application
Type of Process	System automatically sends the student information and student application to the company.
Process Logic READ student information READ student application	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	4.1
Process Name	Check student information
Description	Company check student information
Input Data Flow	Student application status
Output data Flow	Student application status
Type of Process	Manually done by company in the system
Process Logic	

BEGIN IF IF company wish to accept the application of student RETURN student application status as “accepted” ELSE RETURN student application status as “rejected” END IF	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	4.2
Process Name	Choose student
Description	Company choose the students they wish to interview
Input Data Flow	Student application status
Output data Flow	Student application status
Type of Process	Manually done by company
Process Logic BEGIN IF IF company wish to interview students RETURN date of the interview and student application status END IF	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	4.3
Process Name	Finalize the list of student chosen
Description	Company chooses the suitable interviewee to be hired.
Input Data Flow	Student application status
Output data Flow	Student application status
Type of Process	Manually done by company by updating the student application status
Process Logic READ student application status BEGIN IF IF company wish to interview students RETURN date of the interview and student application status DO store student application status in Student Progress Template data store END IF	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	5.1
Process Name	Update student application status
Description	Company change student application status

Input Data Flow	Student application status
Output data Flow	Student application status
Type of Process	Manually done by company in the system
Process Logic READ student application status IF company wish to change student application IF company wish to accept the application of student RETURN student application as “accepted” ELSE RETURN student application as “rejected” END IF END IF	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	5.2
Process Name	View application status
Description	Supervisor and student can check the student application status directly in the system
Input Data Flow	Student application status
Output data Flow	Student application status
Type of Process	Automatic updated by system in supervisor view

Process Logic READ student application status	
Refer To	Structured English
Unresolved Logic	-

Process No.	6.1
Process Name	Attend company interview
Description	Student having an online interview session with company
Input Data Flow	Student application status Student information
Output data Flow	Student application status Student information
Type of Process	Online
Process Logic READ student information READ student application status DO interview	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	6.2
Process Name	Update students progress
Description	Company update students progress status to “interviewed” or “rejected”
Input Data Flow	Student application status Student information Student progress
Output data Flow	Student progress
Type of Process	Manually done by company in the system
Process Logic READ student information READ student application status BEGIN IF IF company wish to hire student RETURN the student progress as “interviewed” ELSE RETURN the student progress as “rejected” DO store student progress in Company Progress Template data store END IF	
Refer To	Structured English
Unresolved Logic	How if the system did not detect the change made in student application status?

Process No.	7.1
Process Name	Update student progress
Description	Company update students progress status to “hired” or “rejected”
Input Data Flow	Student progress
Output data Flow	Student progress
Type of Process	Manually done by company in the system

Process Logic

READ student information
READ student application status
BEGIN IF
IF company wish to change student progress
BEGIN IF
    IF company wish to hire student
        RETURN the student progress as “hired”
    ELSE RETURN the student progress as “rejected”
    END IF
END IF

Refer To	Structured English
Unresolved Logic	**-**

Process No.	7.2
Process Name	View interview results
Description	Student view interview results
Input Data Flow	Student progress
Output data Flow	Student progress
Type of Process	Online
Process Logic READ student progress	
Refer To	Structured English
Unresolved Logic	-

Process No.	7.3
Process Name	Accept/reject the offer
Description	Student wish to accept or reject the offer
Input Data Flow	Student progress Student documentation letter
Output data Flow	Student documentation letter
Type of Process	Manually done by student
Process Logic	

READ student progress
BEGIN IF
IF student wish to accept the offer
    READ student documentation letter
    RETURN student send verification letter to company
END IF
BEGIN IF
IF student wish to reject the offer
    DO student ask the permission from Supervisor
    BEGIN IF
    IF supervisor agree
        READ student documentation letter
        RETURN student send rejection letter to company
    END IF
END IF

Refer To	Structured English
Unresolved Logic	**-**

Process No.	7.4
Process Name	Send offer results
Description	Student inform supervisor and company offer results
Input Data Flow	Student documentation letter
Output data Flow	Student documentation letter

Type of Process	Manually done by student
Process Logic READ student documentation letter BEGIN IF IF company RETURN student send verification letter and BLI-2A form END IF	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	7.5
Process Name	Verify students offer results
Description	Company verify students offer results by sending BLI-2A form
Input Data Flow	Student documentation letter Company documents
Output data Flow	Student documentation letter Company documents
Type of Process	Manually done by company
Process Logic READ student documentation letter	

DO company update company document DO store Company documents and Student documentation letter in documentation template data store	
Refer To	Structured English
Unresolved Logic	**-**

Process No.	7.6
Process Name	Update offer results
Description	Company upload BLI-2A form
Input Data Flow	Company documents
Output data Flow	Company documents
Type of Process	Company update manually in the system
Process Logic DO company upload the company document	
Refer To	Structured English
Unresolved Logic	**-**

7. PHYSICAL SYSTEM DESIGN

Note:

Student Information: Student Name, IC Number, Matric No, Student Email, Student Mobile Number, Student Address, Student supervisor, Student Course, Student Gender, Recorded Video, Student CGPA

Admin Information: Admin Name, Admin Contact

Supervisor Information: Supervisor Name, Supervisor Contact

Company Information: Company Name, Company Contact, Company address, Company Email, Company Registration Number

7.1. PHYSICAL DFD TO-BE SYSTEM

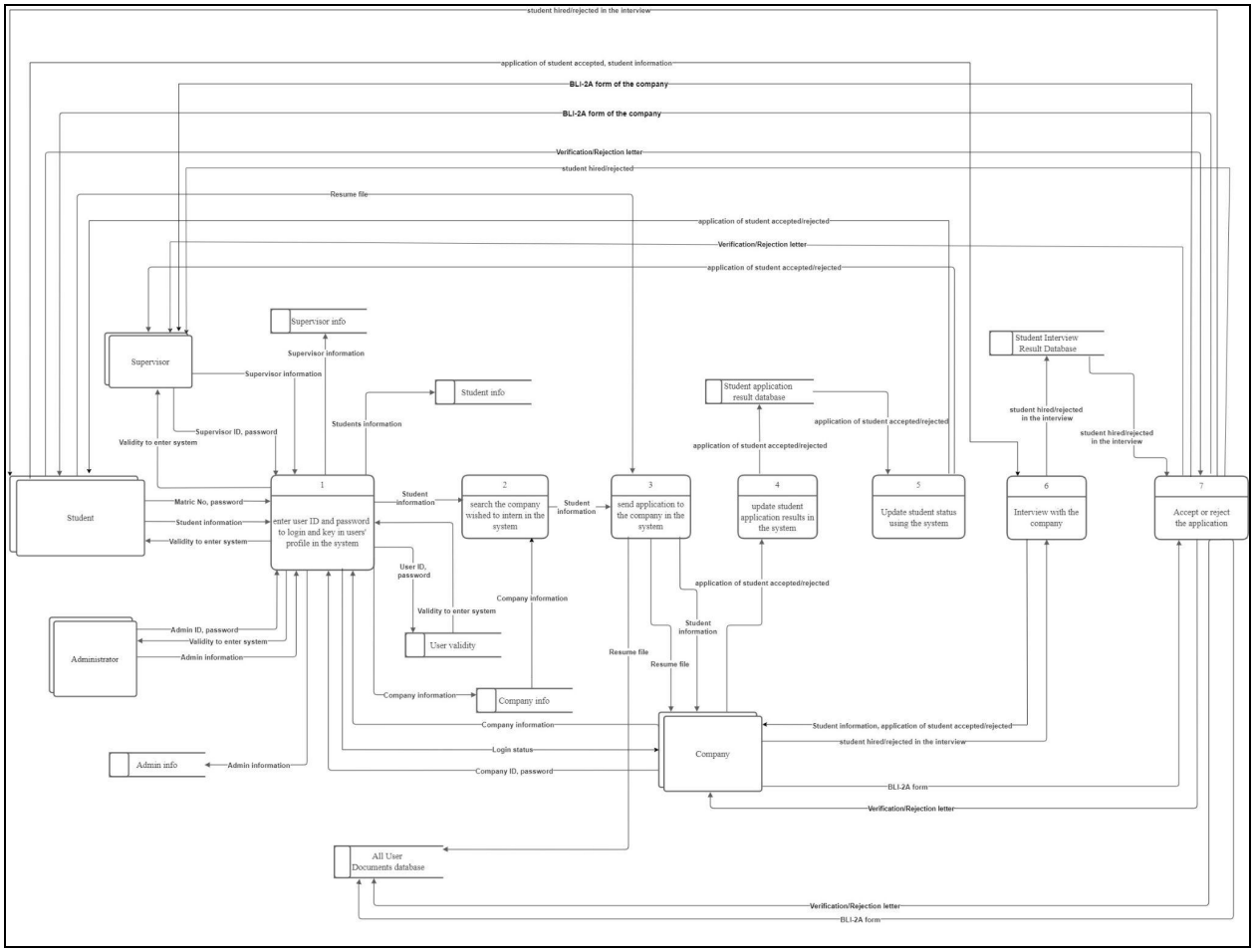


Figure 17: Diagram 0

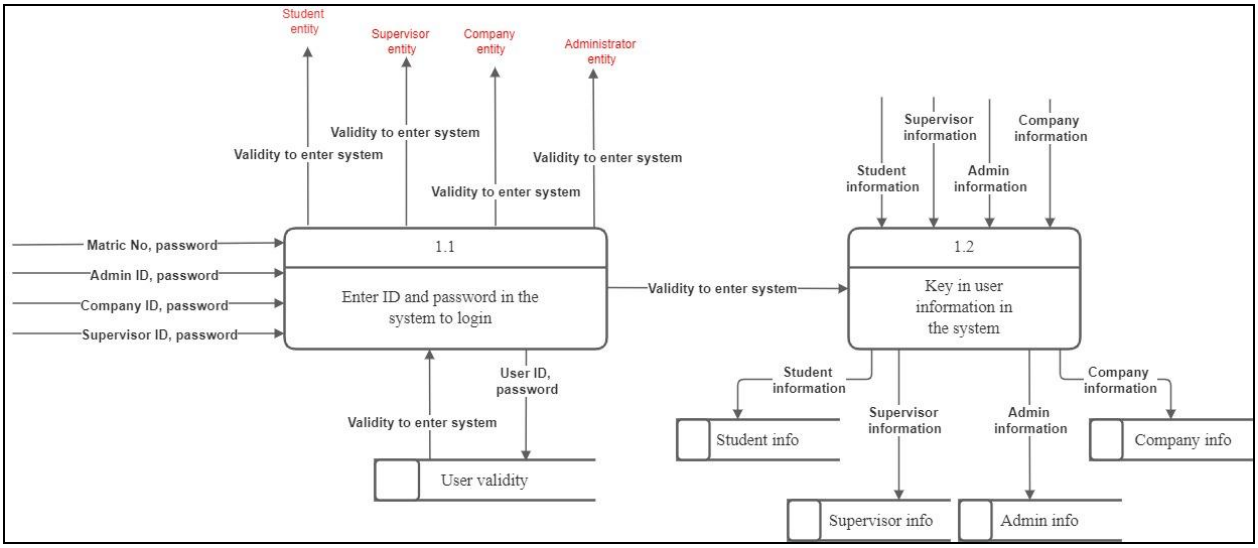


Figure 17: Child Diagram for process 1

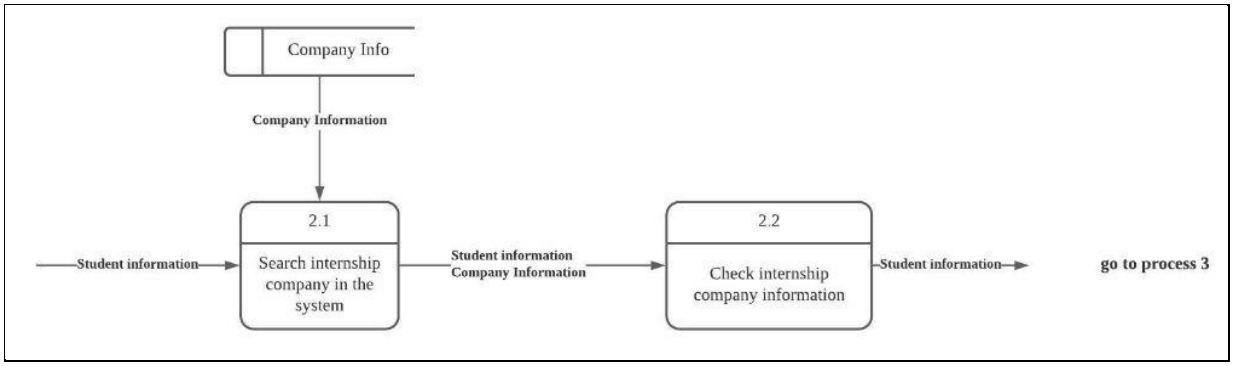


Figure 18: Child Diagram for process 2

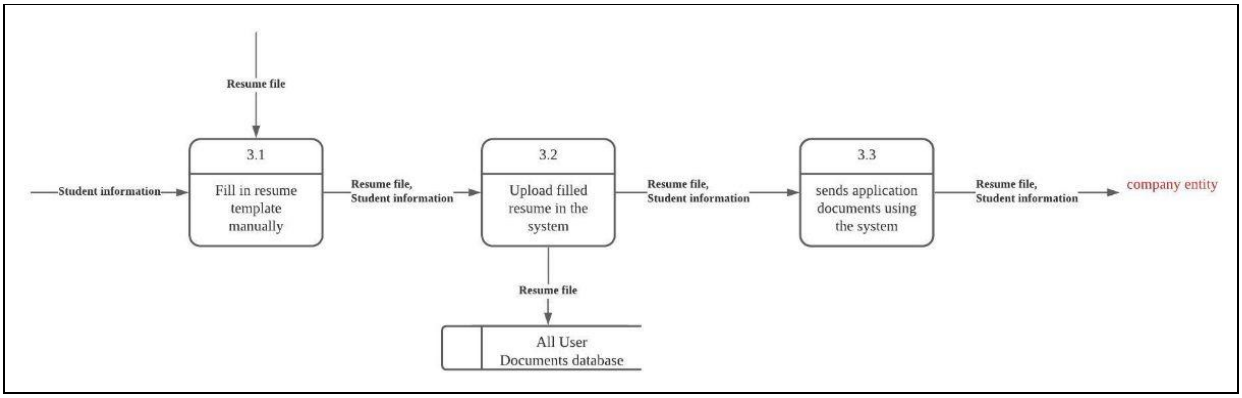


Figure 19: Child Diagram for process 3

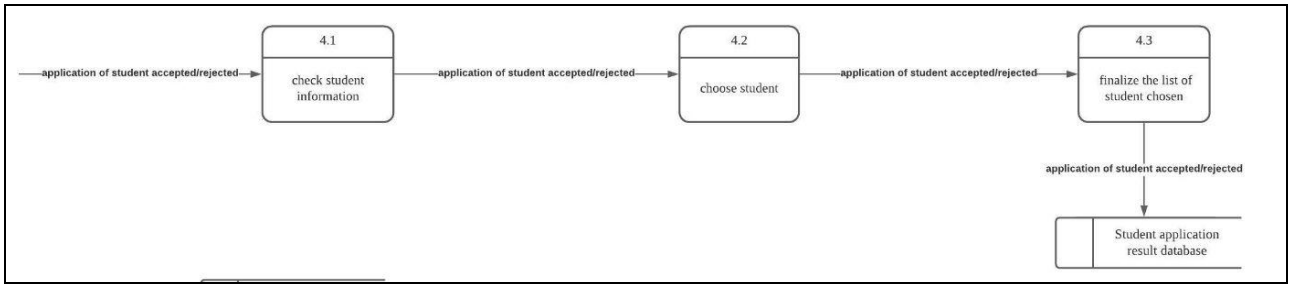


Figure 20: Child Diagram for process 4

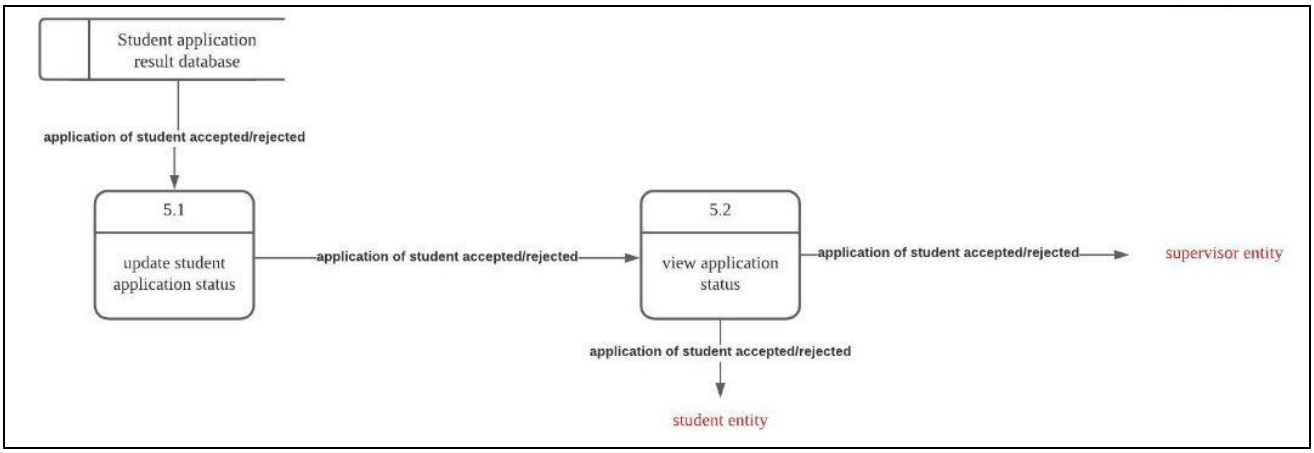


Figure 21: Child Diagram for process 5

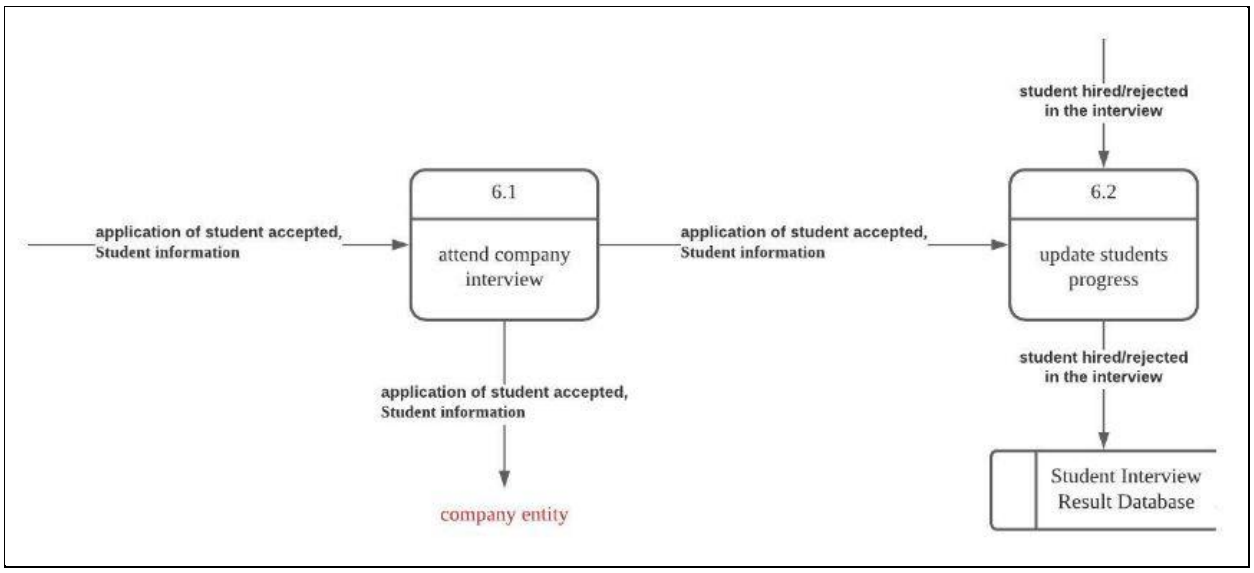


Figure 22: Child Diagram for process 6

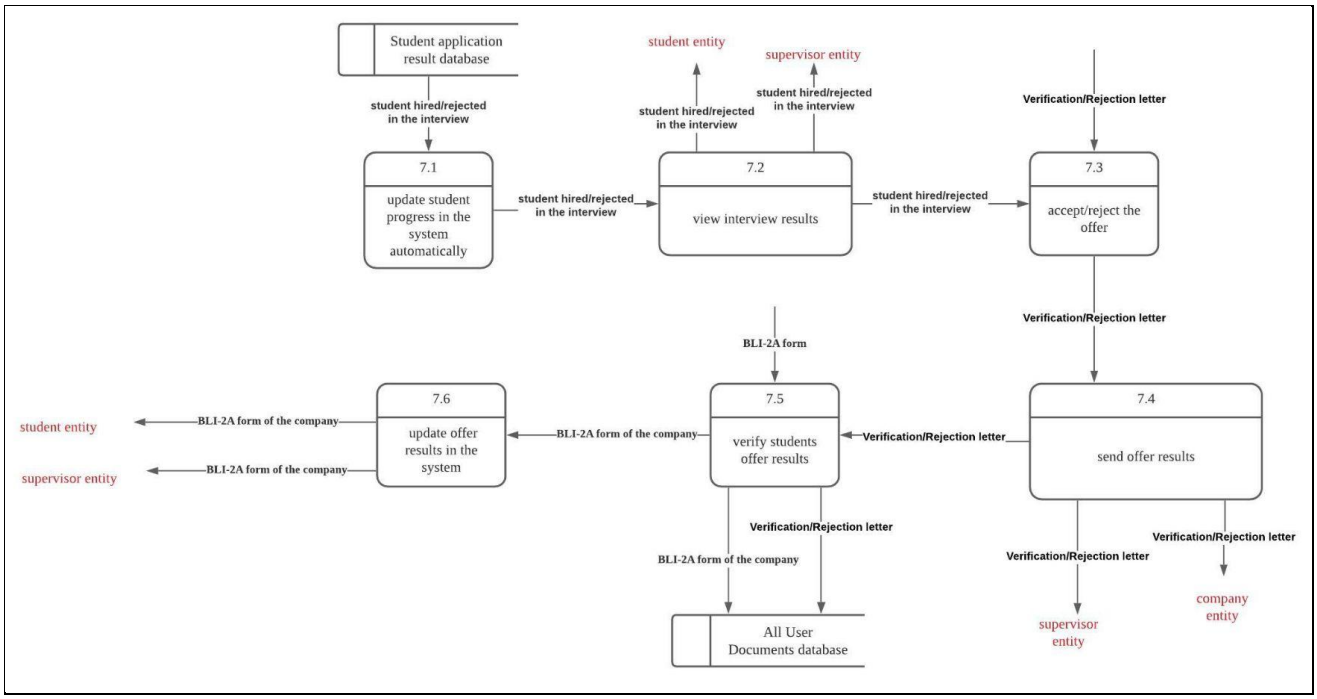


Figure 23: Child Diagram for process 7

7.2. LOGICAL ERD

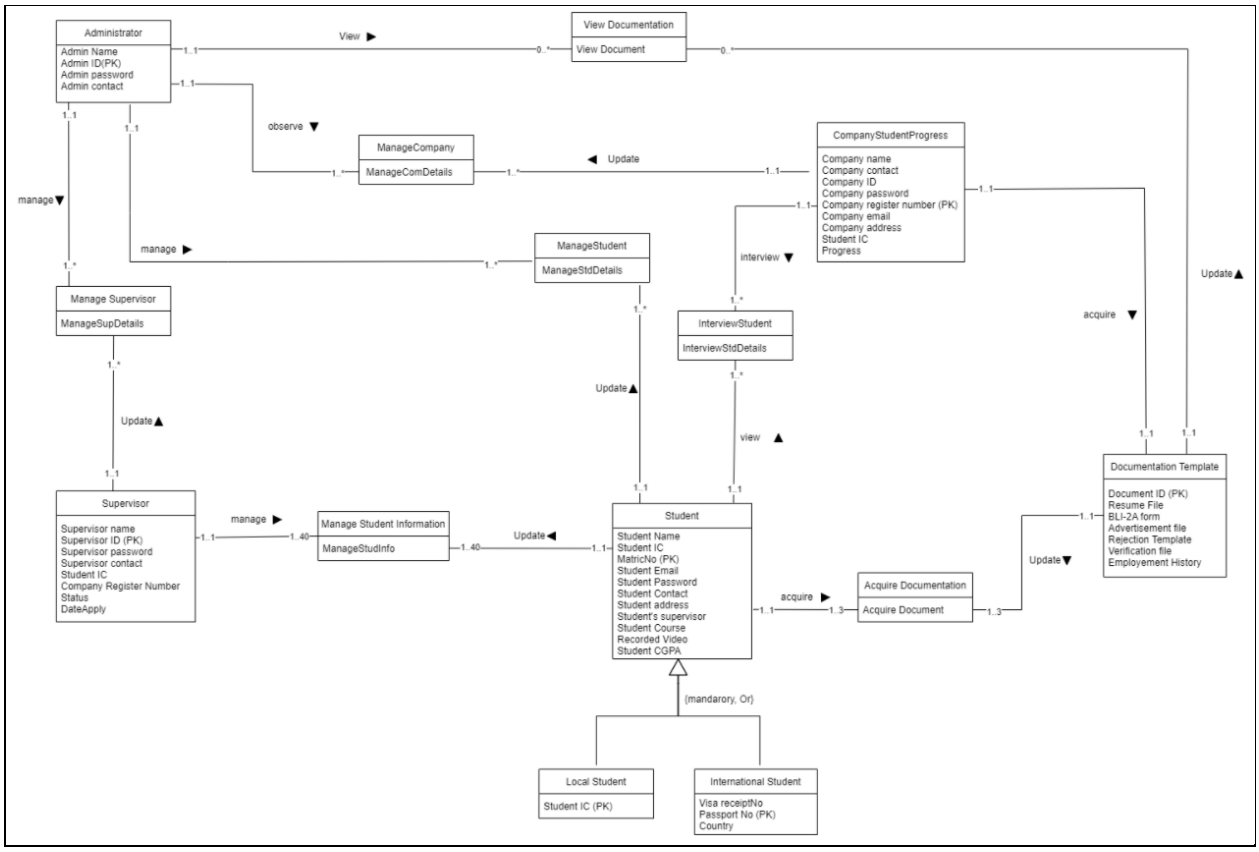


Figure 24: Logical ERD

7.3. DATA DICTIONARY

Entity	Attribute	Description	Data Type & Length	NULL	Example
Student	Student Name	Name of student	VARCHAR2 (100)	No	Ainin
	Student IC	Unique IC number of the student	VARCHAR2 (15)	No	000113042222
	MatricNo	Unique number code of the student (Primary Key)	VARCHAR2 (20)	No	A20EC0001
	Student Email	Email of the student	VARCHAR2 (50)	No	aaa@gmail.com
	Student Password	Unique password of the student	VARCHAR2 (30)	No	asio78-1
	Student Contact	Phone number of the student	VARCHAR2 (12)	No	01111111111
	Student address	Home address of the student	VARCHAR2 (200)	No	1, Jalan UTM, 87090 Johor
	Student's supervisor	ID of supervisor of the student (Foreign Key refers from Supervisor)	VARCHAR2 (5)	No	A001
	Student Course	Course of the student	VARCHAR2 (50)	No	Bachelor degree of bioinformatics
	Recorded Video	Video CV URL link	VARCHAR2 (200)	Yes	https://examplevideo/1111.mp4

	Student CGPA	CGPA of the student	NUMBER (4)	No	3.45
Supervisor	Supervisor name	Name of supervisor	VARCHAR2 (100)	No	Dr.Aiman
	Supervisor ID	Unique number code of the supervisor (Primary Key)	VARCHAR2 (5)	No	A001
	Supervisor password	Unique password of the supervisor	VARCHAR2 (30)	No	89&*qw
	Supervisor contact	Contact number of the supervisor	VARCHAR2 (12)	No	01122222222
	Student IC	Unique IC number of the student	VARCHAR2 (15)	No	000113042222
	Company registration number	Unique code number of the company (Foreign Key refers from Company)	VARCHAR2 (12)	No	202201224R
	Status	Status of student's application	VARCHAR2 (12)	Yes	Applied
	DateApply	Date of student apply internship company	DATE	Yes	11-08-20
Administrator	Admin Name	Name of administrator	VARCHAR2 (100)	No	Shamsudin
	Admin ID	Unique number code of the administrator (Primary Key)	VARCHAR2 (5)	No	Z001
	Admin password	Unique password	VARCHAR2	No	99oooop

		of the administrator	(30)		
	Admin contact	Contact number of the administrator	VARCHAR2 (12)	No	01133333333
CompanyStudentProgress	Company name	Name of the company	VARCHAR2 (100)	No	Apple Inc.
	Company contact	Contact number of the company	VARCHAR2 (12)	No	032223333
	Company ID	Unique ID for company to log in system	VARCHAR2 (5)	No	C001
	Company password	Unique password of the company	VARCHAR2 (30)	No	88&**rr@3
	Company registration number	Unique code number of the company (Primary Key)	VARCHAR2 (12)	No	202201224R
	Company email	Email of the company	VARCHAR2 (12)	No	abc@gmail.com
	Company address	Address of the company	VARCHAR (200)	No	19, Jln Mutiara, Mount Austin, Johor
	Student IC	Unique IC number of the student	VARCHAR2 (15)	No	000113042222
	Progress	Student progress	VARCHAR2 (15)	No	Interviewed
Documentation template	Document ID	Unique code for the document used by users (Primary Key)	VARCHAR2 (5)	No	DC109

	Resume file	Resume file for student to download	BLOB	No	Resume file
	BLI-2A form	BLI-2A form for student or company to download	BLOB	No	BLI-2A form
	Advertisement file	A file for the company to apply for a promotion position.	BLOB	No	Advertisement file
	Rejection template	A file for students to download if they want to reject a company	BLOB	No	Rejection file
	Verification file	Uploaded by supervisor to student so that student allow to be hired by company	BLOB	No	Verification file
	Employment History	Student can comment their experience when they intern in the company	BLOB	Yes	I don't like the environment here.
View Documentation	Admin ID	Unique number code of the administrator (Foreign Key refer from Administrator)	VARCHAR2 (5)	No	Z001
	Document ID	Unique code for the document used by users (Foreign Key refer from Documentation	VARCHAR2 (5)	No	DC109

		Template)			
	View Document	Document uploaded by users	BLOB	No	Document File
ManageCompany	Admin ID	Unique number code of the administrator (Foreign Key refer from Administrator)	VARCHAR2 (5)	No	Z001
	Company registration number	Unique code number of the company (Foreign Key refer from Company)	VARCHAR2 (12)	No	202201224R
	ManageComDetails	Company information managed by administrator	BLOB	No	Company File
Manage Supervisor	Admin ID	Unique number code of the administrator (Foreign Key refer from Administrator)	VARCHAR2 (5)	No	Z001
	Supervisor ID	Unique number code of the supervisor (Foreign Key refer from Supervisor)	VARCHAR2 (5)	No	A001
	ManageSupDetails	Supervisor information managed by administrator	BLOB	No	Supervisor File

Manage Student	Admin ID	Unique number code of the administrator (Foreign Key refer from Administrator)	VARCHAR2 (5)	No	Z001
	Matric No	Unique number code of the student (Foreign Key refer from Student)	VARCHAR2 (20)	No	A20EC0001
	ManageStdDetails	Student information managed by administrator	BLOB	No	Student File
InterviewStudent	Company registration number	Unique code number of the company (Foreign Key refer from Company)	VARCHAR2 (12)	No	202201224R
	MatricNo	Unique number code of the student	VARCHAR2 (20)	No	A20EC0001
	InterviewStdDetails	Student interview details send by company to student	BLOB	No	Interview file
Manage Student Information	Supervisor ID	Unique number code of the supervisor (Foreign Key refer from Supervisor)	VARCHAR2 (5)	No	A001
	Matric No	Unique number code of the student (Foreign Key refer from Student)	VARCHAR2 (20)	No	A20EC0001

	ManageStudInfo	Student information viewed by supervisor	BLOB	No	Student file
AcquireDocumentation	Document ID	Unique code for the document used by users (Foreign Key refer from Documentation Template)	VARCHAR2 (5)	No	DC109
	Matric No	Unique number code of the student (Foreign Key refer from Student)	VARCHAR2 (20)	No	A20EC0001
	Acquire Document	Document acquired by students	BLOB	No	AcDoc File

8. SUMMARY OF PROPOSED SYSTEM

Our proposed internship management system, Intern Doctor has improved some functions of the currently used system from manual to automatic in the new system. This improvement is important to ease the students for finding a company for internship. In addition, the automatic system can reduce the data redundancy and is easier to manage.

One of the functions that changed from manual to automatic in the new system is when the students apply for an internship with the company. In the current system, students need to find the company by themselves, verify it, and then send the resume to the company by email and wait for the reply. After that, they need to upload the proof of application to Google Drive for the administrator to check. However, in our new Intern Doctor system, the students can directly find the company in the system. If they want to apply, they can simply download the resume template in the system and upload their

completely filled resume to the company. The status of application of the student will be shown whether it is “applied”, “interview” or “reject”. This eases the administrator as well as supervisor to track their students’ progress.

Besides, one important difference of our newly proposed system is that we included the company as a user in our system. Companies can register themselves in our system and they will get a unique ID for login to the system. In this way, the companies are more convenient to manage the student application and make their decision to interview or hire students for internship as they can see the students’ resume and information directly if the students applied for their company. The company can choose to interview the students by changing the progress status in the system. After the interview, the company can choose to “hired” or “reject” the students by changing the progress button. The system will send the notification to the students whenever the status is changed so that the students can know their status as soon as possible. Moreover, the company can put their advertisement in our system to promote themselves by paying some advertisement fees. Thus, University Technology Malaysia (UTM) can make use of these advertisement fees to reduce the cost for the system maintenance.

Moreover, there are documentation file templates for students to download if needed. Furthermore, our new system also enables the students to drop comments based on their experience in the company in employment history. If the students are not satisfied with the company they work for, such as the company exploiting the staff, they can put their comment there so the other students can see and be aware.

In conclusion, we have improved some currently used functions in the system by transforming it from manual to automatic. We are also adding some new features in our system for a better experience for the users.