UTM
UNIVERSITI TEKNOLOGI MALAYSIA

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INDIVIDUAL ALTERNATIVE ASSESSMENT

PHASE 4: - Technical Report (10%)

INTERN DOCTOR

GROUP 5

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1. PROJECT OVERVIEW

Industrial Training System is an online internship platform that helps students find internship companies. However, the system still has some flaws that make users face many limitations when using it. Therefore, the information that had been obtained through interview with stakeholder will be used to improve the performance of the industrial training system by developing the new system, Intern Doctor.

Many features and functions have been added. First, the Intern Doctor will include the company as one of the users. Companies can promote jobs on the system and observe the status of students. Supervisors can observe students' application progress directly in the system without confirming with students. Students can also know if their application has been received by the company.

In addition, the system has also added an interview interface, and both students and companies can conduct interviews in the system. This feature can be convenient for users as they do not need to conduct interviews outside the system. In addition, the intern provides a documentation interface. The interface provides important documents such as resume templates, verification letters, rejection templates, and comment areas of students' work experience in the company. To sum up, unlike the current system that needs to perform some functions outside the system, the Intern Doctor can complete all the procedures through the system.

The objective of the project is to improve the performance of the current system by simplifying student applications and managing student progress, and to provide an online internship platform capable of managing different users for different jobs.

The scope of the project is user and system. Users are the people who use the system, and the proposed system can solve their limitations in the current system, so that they can easily do their jobs. Systems that provide different functions are also considered so that processes can be smooth, and tasks can be completed efficiently.

Some assumptions are made whey we calculated the economic feasibility. From the assumptions, we get a result of the profitability index of 4.86, which indicates that this project is a good investment.

2. PROBLEM STATEMENT

The current system, Industrial Training System, does not provide the ability for supervisors and students to observe the company's legacy and environment. The company details must be completed manually by the student. This increases the chances of students applying for illegal companies or working in harsh environment companies.

Next, students have no way of knowing if their application has been received by the company. This is because the company is not a user inside the system. Therefore, students need to apply for companies outside the system. Communication between students and companies is via email. As a result, students do not know how their application is going. Moreover, there are no reminders in the system. Students may not remember application deadlines and the number of applications. As a result, students can get stuck in the system.

In addition, the system has no platform for companies to advertise on. By providing an advertising platform, students can find the suitable company by looking at the jobs offered by the company. Furthermore, there is no communication platform provided in the system. This makes communication between users difficult.

3. PROPOSED SOLUTIONS (PHYSICAL DFD TO-BE SYSTEM)

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

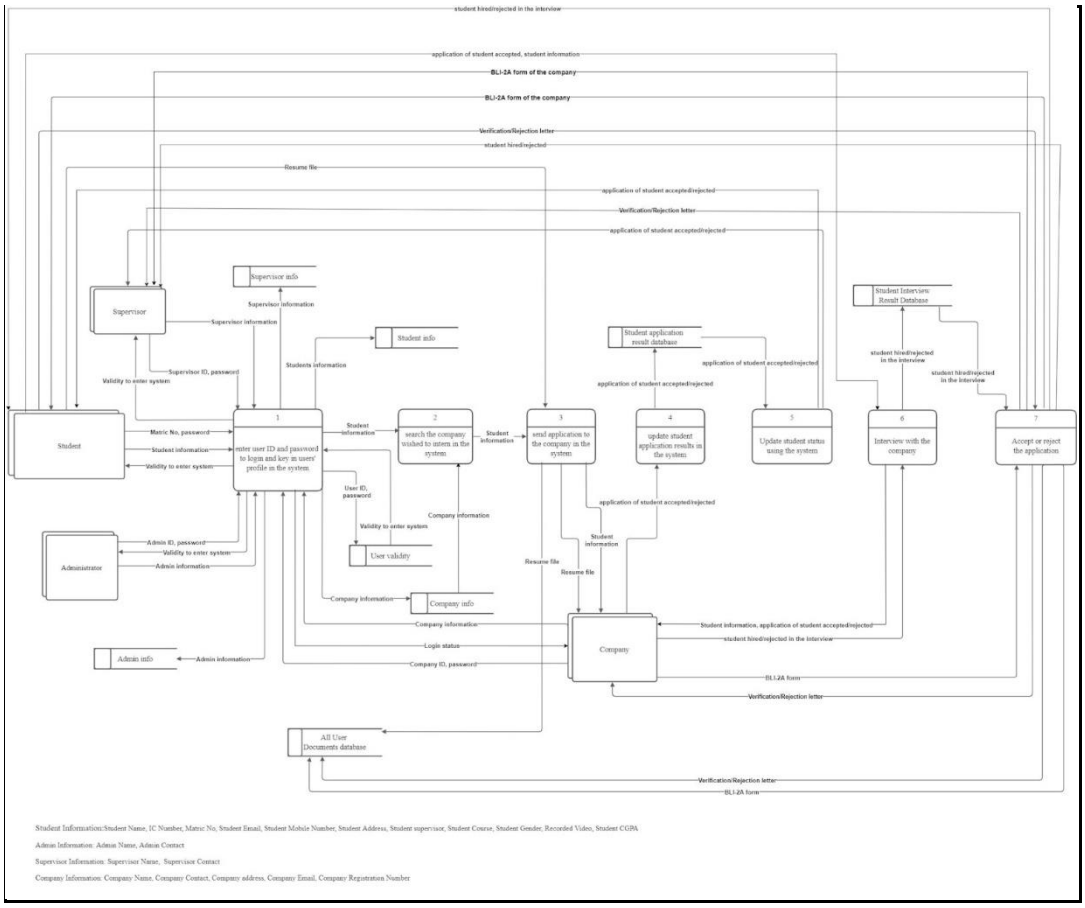

Figure 1: Physical Diagram for Diagram 0

Many features and functions have been added to the proposed system. Company legacy can be determined by providing a company registration number. This is because the company registration number is the identity of the company, indicating that the company has been legally registered.

Next, a comment section was added to the proposed system. Students can comment on their work experience with the company. This can help other students learn about companies before applying to them.

Additionally, a progress feature has been added to the proposed system. This function can tell the user the progress of the student's application. The supervisor can know whether the student has applied to the company and whether the student has been hired or rejected by the company. Students can know if their application has been received by the company and the company's response. Companies are also able to determine a student's progress if they are accepted, rejected, etc.

Furthermore, the proposed system provides an advertising interface for companies to advertise. This advertising interface helps students find jobs easily, and it helps companies get students easily.

4. MODULE CHOSEN FROM THE PHYSICAL DFD TO-BE SYSTEM

My chosen module is Process 5 Update Student Status. After the company receives the student's resume file. Companies can view resume files and enter student profiles to view the recorded curriculum vitae (cv). If the company wishes to accept the student's application, the company can change the student's progress to accepting the application, otherwise the company can reject the application.

When a company changes a student's progress, the system automatically updates the student's progress in the Student and Supervisor views. Therefore, students and supervisors can know the progress of the student's application.

4.1 CHILD DIAGRAM

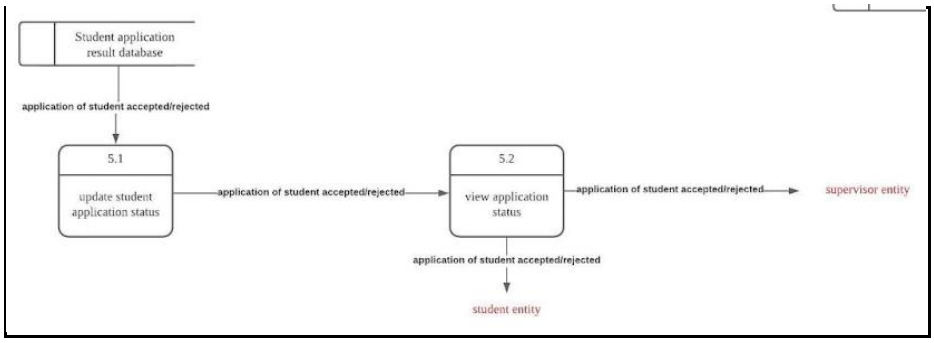

Figure 2: Child Diagram for process 5

Before entering this process, company had already finalized the list of the student application. In this process, company will change the student status according to the finalize list. The updated student status will automatically be updated by the system in the view of the Student and Supervisor. Then, students and supervisor able to view the student application status whether had been accepted or rejected.

4.2 PROCESS SPECIFICATION

Process No.	5.1
Process Name	Update student application status
Description	Company changes 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	-

Company will change the student status according to the finalize list. The updated student status will automatically be updated by the system in the view of the Student and Supervisor.

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	-

Students and supervisor able to view the student application status whether had been accepted or rejected.

5. INTERFACE DESIGN (GUI) OF THE CHOSEN MODULE

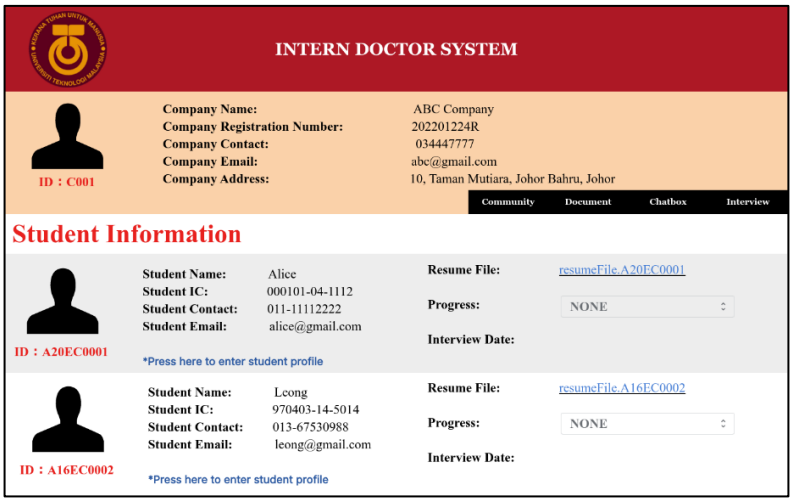

Figure 3: Company view on the progress of the Alice

Figure 4: Supervisor view on the progress of the Alice

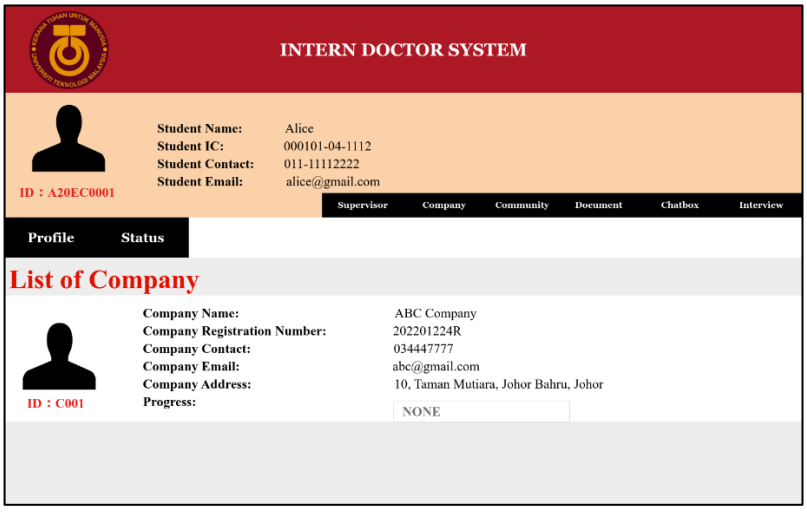

Figure 5: Alice views the progress

From the above diagrams, we can see that if company did not change the progress of Alice, Supervisor and Alice only can see her progress as NONE.

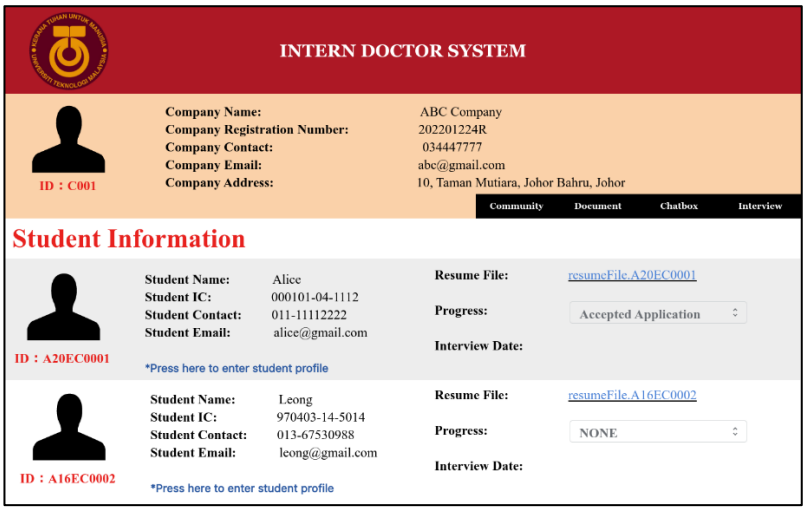

Figure 6: Company wish to change Alice's progress to accepted application

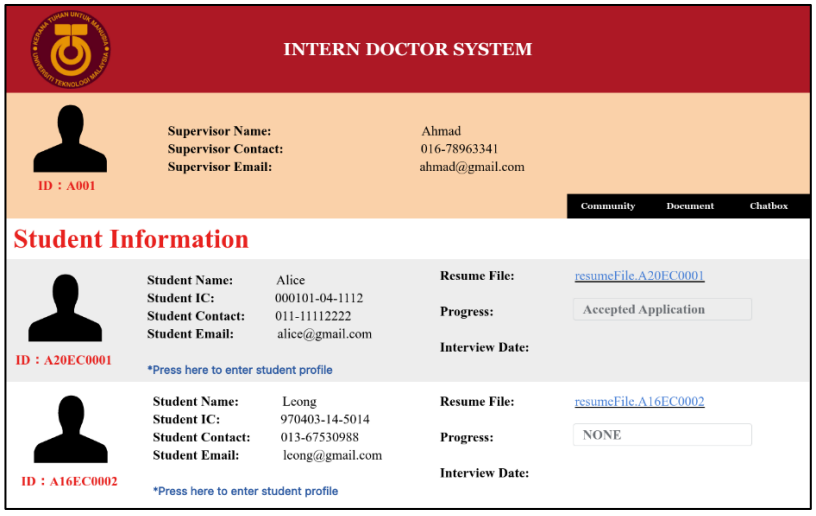

Figure 7: The progress of Alice in Supervisor view change to accepted application

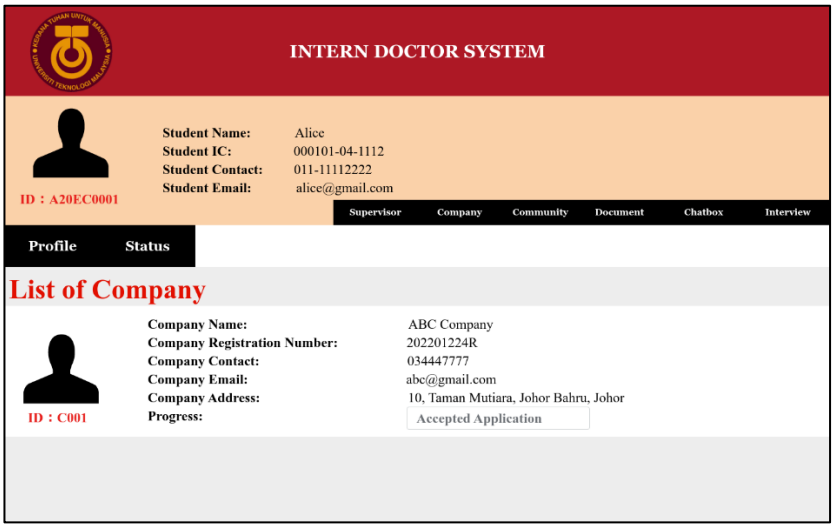

Figure 8: The progress in Alice view change to accepted application

The figures above show that if company change the student's progress, system will also change the progress in Supervisor and Student view.

6. CONCLUSIONS WITH YOUTUBE LINK OF THE PRESENTATION VIDEO

Our proposed system, Intern Doctor, improves on current system, Industrial Training Systems by providing various features and functions. This improvement is important because users can perform different functions efficiently.

Through discussions and brainstorming with group members, students can search for internship companies in the system, check the application progress, conduct interviews in the system, obtain templates of required documents such as resumes and rejection letters, and get work experience from other students while they were working in the company that you wish to apply in the comment section.

In addition, companies can advertise the positions they are looking for and never miss applications from students because the system lists the student information in the company profile. Additionally, supervisors can view student progress directly in the system.

Through this project, I can find the problems existing in the current system, analyze the information from the current system and stakeholder interviews, and solve the problems encountered in the current system. Discussions and brainstorming with group members allowed us to come up with a new idea to improve the performance of the system. The contributions of team members create a positive work environment that helps us accomplish our tasks effectively.

While working on this project, we changed what we did many times. This is because every time we start a new task, we find a contradiction between the previous task and the new task. Therefore, we need to spend more time adjusting the contradictory parts. Therefore, I suggest that for future projects, it is best to do more research and discuss with the project consultant, so that the tasks that have been completed will not be changed many times.

YouTube link for Individual Alternative Assessment:
https://youtu.be/2GkKfJungSM