

**BACHELOR OF INFORMATION TECHNOLOGY (HONS)**

**BIT304**

**Final Year Project I**

## PROJECT PLAN

**Ayo Magang: Web Application for Internship in Denpasar**

|  |  |
| --- | --- |
| **Student Name: Rivaldo Bagus Soepardhy** | **Student ID: E1700882** |
| **Student Name: Luh Wulandari Maharani** | **Student ID: E1700873** |

**15 Jalan Sri Semantan 1, Off Jalan Semantan, Bukit Damansara, 50490 Kuala Lumpur, Malaysia.**

**Tel : 603-2716 2000, Fax : 603 - 2095 7100**

1. **PROJECT TITLE**

Ayo Magang: Web Application for Internship in Denpasar

1. **PROJECT MEMBERS**

|  |  |  |
| --- | --- | --- |
| **No** | Student ID | **Name** |
| 1 | E1700882 | Rivaldo Bagus Soepardhy |
| 2 | E1700873 | Luh Wulandari Maharani |

1. **PROJECT KEY WORDS**

* Internship
* Jobs
* Internship Service
* Website
* Academic

1. **PROJECT BACKGROUND**

Internships are job-training activities carried out by vocational high school or college students in a company or institutions in both government and non-government. With internship, vocational high school and college students can add insight, knowledge, skills and ethics (academic purpose), especially in the real work environment. Not only vocational high school and college students will get the benefits from this internship, but companies and related institutions will also get benefits such as increasing branding and finding prospective employees easily.

In the current era of digitalization, the public, especially vocational high school and college students, want ease in accessing various information, one of them is accessing information on internships. Where vocational high school or college students who have just a little or even no relations, still can find the right internship easily.

Ayo Magang is a web-based apprenticeship application created specifically to facilitate vocational high school and college students to find internships around Denpasar city, which are desired according to their field of expertise. Companies and related institutions will find the desired employees easily and can save on expenses.

1. **AIMS OF THE PROJECT**

The aim of this project is to develop an application for vocational high school and college students to find internship in companies for academic purpose. This also ease companies to get interns to work in their company for the sake of educational purpose or even company’s branding. This application helps student to find the desired company for internship in order to fulfil the demand of their school’s or campus’s academic. This application can also determined which company to get along with according to the course of your education stated in your profile (Hospitality, Technology, Medical etc.).

It is expected from this application that this could help student in trouble or confusing situation to consider which workplace will be a good place for their internship, while also helping companies to get better branding and to find potential employee through the internship.

1. **OBJECTIVES OF THE PROJECT**

There are several objectives that we set to develop Ayo Magang application, which are:

* Providing information for vocational high school and college student about relatable workplace for their academic internship.
* Providing a media for company to have company branding (advertisement).
* Providing a media for company indirectly to recruit and train potential prospective employees from the internship.
* Providing an indirect potential relationship between both educational institutes and companies.
* Providing real evidence to support increased of investment in human resource, marketing, and technology.

1. **BUSINESS VALUE PROPOSITION**

This application is intended for vocational high school & college student to find their preferred place of workplace for academic internship. Although the focus of the application is for academic reason, but there is still an opportunity for business; Branding and Relationship. This can be as an indirect effect for business. Through the application, companies will indirectly branding their selves because of the vacancies that they offer for student for academic internship. In addition, there will be potential relationship between companies and school as they can exchange trainee (or recruit perspective employee), or developing a project.

1. **OUTPUTS EXPECTED FROM THE PROJECT**

Details of works and tasks done by each team member:

* + - * 1. Rivaldo Bagus Soepardhy
* Develop project objectives
* Project aims & objectives
* Literature review
* Risk management
* Prototype
  + - * 1. Luh Wulandari Maharani
* Project background development
* Project aims and project objectives
* Resource plan list
* Literature review
* Requirement gathering
* Prototype

1. **ORGANISATIONS/INDUSTRIES INVOLVED IN THE PROJECT** 
   1. ITB STIKOM Bali
   2. HELP University
2. **SYSTEM DEVELOPMENT METHODOLOGY**

The system development methodology that we will use is Agile Methodology. This methodology usually used for developing the information systems that has ever-changing business requirements. This methodology has one of the most popular agile software development frameworks called Scrum. The Scrum simplifies process framework and focuses on teamwork. The objective of Scrum is to deliver working software and demonstrate it faster and more frequent during the software development project (Tomanek & Klima, 2015).

The major benefit of the Scrum framework is the iterative development approach and the opportunity to automate penetration tests. Therefore, the security vulnerabilities can be discovered and solved more often, which will positively contribute to the overall information system protection.

We choose Agile Methodology because it is suitable for developing application system and can easily handle continuous cycle of improvement. Therefore, that it can provide changes and improvements to the application to be as close as possible to the project scope. This methodology also focused on teamwork, so that it allows all of us as developers to communicate to each other to develop the expected website application.

## RISK MANAGEMENT PLAN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Description | Probability % | Impact  1= low  5 = high | Mitigation Strategy |
| 1 | Lack of experience, skills, and knowledge in developing a website application using Laravel Framework or PHP Native. | 45 | 5 | Find online source regarding PHP and Laravel framework, exploring plans and option in between deciding which method is the best. |
| 2 | The website might have bugs or unexpected errors occurred. | 30 | 4 | Performing testing (unit testing, system testing and integration testing) for early detection of bugs and errors that might happen. |
| 3 | The website might not be done on deadline. | 50 | 5 | Talk efficiently, catching up schedules and communicating with members and lecturers. Held only important meetings (necessary only). |
| 4 | UML Diagram produced might not show the proper workflow of the system, creating misunderstanding. | 35 | 3 | Reconsidering and checking out to basic design of the system. Get more consultation to lecturer. Re define each use case / action required in each design. |
| 5 | Errors undetected in the final release or future development | 10 | 3 | Error logging on the system, documentation documents. |

**12. WORK ITEMS LIST**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phases and Activities** | **Priority** | **Assigned To** | **Effort Estimated (days)** |
| * + - 1. **Initiating** | | | |
| * 1. Online Meeting with Supervisor | High | Aldo and Wulan | 1 |
| * 1. Project Theme Identification | High | Aldo and Wulan | 1 |
| * 1. Consultation with Supervisor | High | Aldo and Wulan | 1 |
| 1. 4 Project Theme Decision | High | Aldo and Wulan | 0 |
| * + - 1. **Planning** | | | |
| 1. Develop Project Background | High | Wulan | 1 |
| 1. Develop Project Aims and Objectives | High | Aldo | 1 |
| 1. Develop Work Item List | Medium | Wulan | 2 25/26 |
| 1. Develop Project Schedule | Medium | Wulan | 1 27 |
| 1. Software Methodology | Medium |  | 29 |
| 1. Develop Resource Plan | Medium |  | 29 |
| 1. Risk Management Plan | High |  | 30 |
| 1. Submission of Project Plan | High | Aldo and Wulan | 1 |
| * + - 1. **Executing** | | | |
| 1. Develop Literature Review | High | Aldo and Wulan | 2-7 |
| 1. Develop Project Management Plan | High | Aldo and Wulan | 2-7 |
| 1. Chapter II: Literature Review and Project Management Plan Submission | High | Aldo and Wulan | 8 |
| 1. Preparation for Interim Presentation | Medium |  | 9-14 |
| 1. Interim Presentation | High |  | 15 |
| 1. Develop Requirement Analysis | High |  | 16-17 |
| 1. Develop Functional and Non-Functional Requirements | High |  | 18-20 |
| 1. Develop Use Case Diagram | Medium |  | 20-21 |
| 1. Chapter III: Requirement Analysis Submission | High |  | 22 |
| 1. Develop Class Diagram | High |  | 23 |
| 1. Develop Sequence Diagram | High |  | 23 |
| 1. Database Design | Medium |  | 24 |
| 1. Structural Design | Medium |  | 24 |
| 1. User Interface Design | High |  | 24 |
| * + - 1. **Construction** |  |  |  |
| 1. Coding for Prototype | High |  | 25-27 |
| 1. Testing | High |  | 28 |
| 1. Chapter IV: Iteration Submission | High |  | 29 |
| * + - 1. **Closing** |  |  |  |
| 1. Develop Progress Report | High |  | 30-1 |
| 1. Preparation for Final Report Submission | High |  | 3-4 |
| 1. Final Report Submission | High |  | 5 |
| 1. Preparation for Final Presentation | High |  | 6-8 |
| 1. Final Presentation | High |  | 9 |

1. **WORK PLAN**

Use a Gantt chart to specify the work activities and milestones. Include your Gantt chart in Appendix. Your Gantt chart should include both BIT304 and BIT305 timelines.

Ganttchart for FP1 & Fp2

(rancang sampe akhir lan)

1. **DURATION**

BIT304

Start Date: June 17th, 2020

End Date: August 9th, 2020

BIT305

Proposed Start Date: September 21st, 2020

Proposed End Date: January 2020

1. **PROJECT RESOURCE REQUIREMENTS AND ESTIMATED COSTS\***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Item** | **Usability** | **Qty** | **Cost** |
| **Hardware** | | | | | |
|  | Asus VivoBook S14-410UN | Project Development & Project Testing | 1 | Available |
|  | Asus ROG GL503GE | Project Development & Project Testing | 1 | Available |
|  | Canon G2010 | Document Printing | 1 | Available |
| **Operating System** | | | | |
|  | Windows 10 | Project Development & Project Testing | - | Available |
| **Software** | | | | |
|  | Adobe XD CC 7.0.12.9 | Create interface design | - | Available |
|  | Microsoft Visio 2016 | Drawing UML Diagram | - | Available |
|  | Microsoft Word 2016 | Create project document | - | Available |
|  | Microsoft PowerPoint 2016 | Create presentation for the project | - | Available |
|  | XAMPP 7.4.3-0 | Database Creation | - | Available |
|  | Gantt Project 2.8.1 | Create project schedule | - | Available |

1. **OWNERSHIP OF INTELLECTUAL PROPERTY RIGHTS**

All ownership and intellectual property belongs to HELP University.

**PROJECT MEMBERS DECLARATION**

We hereby acknowledge that the all the information given above is true and correct to the best of our knowledge.

**Name :** Rivaldo Bagus Soepardhy

**Signature :**

**Date :**

**Name :** Luh Wulandari Maharani

**Signature :**

**Date :**

## References

Provide a complete list of all documents and other sources of information referenced in this Proposal. Use the APA referencing style adopted by the School of ICT.

## Appendix A: Team Members’ Contributions

|  |  |
| --- | --- |
| Student Name | Contribution[[1]](#footnote-1) |
|  |  |
|  |  |
|  |  |

1. **Enter** **each individual student’s contribution (eg. 0.5 for 'half' contribution or 1 for 'full' contribution). The examiner will award a shared group mark, which is adjusted according to the peer assessment factor. The individual student's mark is based on the group mark multiplied by the peer assessment factor (eg. X 0.5 for 'half' contribution or X 1 for 'full' contribution).** [↑](#footnote-ref-1)