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Title: Internship Web Portal

I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be award

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1. Introduction

Web applications are an essential component of our everyday life in this modern world. There are various kinds of web applications which people are using for connecting people all over the world, doing online shopping, e-banking, etc. In a student's life, an internship plays an important role in gaining valuable work experience with developing and refining skills for a better career in related fields. I have decided to develop an "Internship Web Portal" project to help students to get internships in renowned companies and know the vacancy for internships. This web application is for those students who are willing to do an internship. With the help of this application, students will be able to know about internship vacancy, company information, skills requirements for applying for an internship.

1.1 Problem Scenario

All the final year students should do internships to exposure the real-time working environment in any company which is related to their field of study. Students are having trouble finding internships and knowing about internship vacancies. Since they must visit the company to know about the internship vacancies which consume a lot of time. Students are facing difficulties to know about the internship vacancies nearby them due to a lack of information. Some websites claim to show the internship vacancies, but they provide less information and data needed. Students who are willing to do an internship face information issues because sometimes companies do not post internship opportunities on their personal websites as students search for information manually on the company's websites. After research, I found out that, there is no online platforms that provide students a proper information on internship opportunities. So, I have decided to create a user-friendly web portal that allows the companies to post about internship information and students to search internship opportunities.

1.2 Project as a Solution

This web portal can help both students and companies to get and provide internships. This web application will be able to display all the internship vacancies available with requirements skills and company information. Students can apply for an internship as per their area of interest. This web portal allows the company to post about the vacancy and requirements where students can apply for an internship in the company. The students can search for internship vacancies according to the cities.

2. Aims and Objective

2.1 Aims

The aim of this project is given below:

To develop a user-friendly web application platform which will allow students to get hired for internships in the field of study they are interested in and companies to post their internship vacancy information. On the students' side, they can see all the best companies in Nepal in one place with internship vacancies and they can apply for internships as per their interest. On the companies' side, they will have a marketing platform to improve public visibility, post vacancies, and reach a larger number of students.

2.2 Objective

The major objectives of this project are as follows:

- Students will be able to see all the internship vacancies with company information and skill requirements and can easily apply for an internship.
- Students will be able to search for preferable internship opportunities according to the location(cities).
- Allow the company to post vacancies and reach out to a larger number of students without spending money on the advertisement of vacancy.
- Once the students successfully applied for an internship they may be notified through mails or call if they are selected for the internship.
- To help students to save time and help in learning.

3. Expected Outcomes and Deliverables

After the successful development of this web application, it will be able to perform the following tasks and features:

- This project helps to provide internships for students as per their area of interest and apply for internships in reputed companies nearby them.
- A student can get proper details of the internship with company details and location.
- Students can search for internships according to the places or cities nearby them.
- Separate login areas with appropriate functionality for students and companies.
- A company can post an internship vacancy and automatically deletes the post vacancy after the date expires.
- An effective GUI so that students and companies may easily use the service and edit the information.
- Students may be notified via Gmail whenever new vacancies are published by the company.

4. Project risks, threats, and contingency plans

Many risks and threats are expected during the development of the web application. Some of them are listed below:

- As I am working on a web application project for the first time, integrating all the features may be very challenging.
- This web application may not cover all kinds of internship, location and may not help all the students for getting hired in an internship.
- This application might not be compatible with some students and companies.
- This application can be time-consuming and a bit costly than expected.
- The companies may not post vacancies for the internship.
- This web application would be better if it would be available in the form of mobile apps.

The risks and threats shown above can be minimized or eradicated by the following given contingency plans:

- Researching resources on the internet for developing applications for full functionality and features available with location search filters and adding necessary information in the database.
- Trying to complete the project as soon as possible with all the features and user-friendly environment in time.
- Researching more and more and developing certain strategies for eradicating the cost and time problems.
- Convincing companies and students to use the web application with ensuring data protection and privacy.
- Researching intern web applications and features and trying to solve many problems related to the finding internship.
- If a certain amount of time is available then, trying to implement unique features and develop a more user-friendly web portal.

5. Methodology

In this project, I have planned to implement RUP methodology. This is an iterative software development process initially produced by Rational Software Corporation that IBM acquired in 2003 which offers a structured approach to assigning roles and responsibilities within a production organization with the goal of ensuring that the creation of high-quality software meets the needs of its end-users within a consistent timeline and budget. RUP splits the process of development into four different stages, each involving market modeling, research and design, implementation, testing and deployment. The four phases are given below:

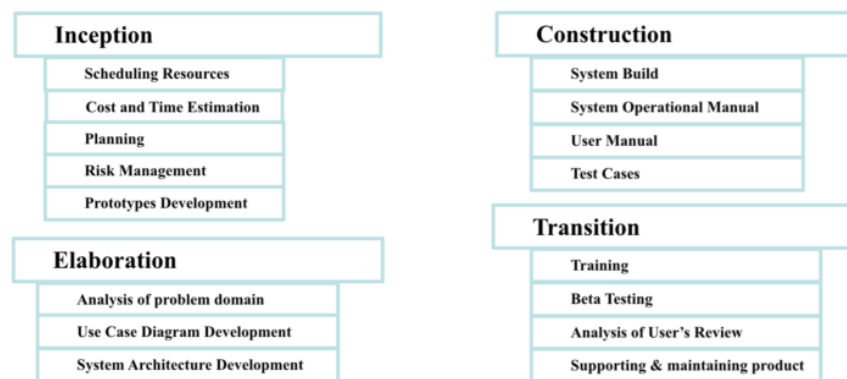


Figure 1: Four phases of RUP.

For each phase of the development process, it includes a clear strategy that helps avoid wasting of resources and decreases unforeseen development costs. Because of the following benefits I have chosen RUP methodology:

- It helps to cope with evolving requirements, regardless of whether they come from the client or from the project itself.
- It emphasizes the need for accurate documentation.
- It enhances control of processes and risk management.
- This enables us to deal with evolving demands during the project's development life cycle as per the needs of the client or customer, i.e. it welcomes change.
- It supports incremental build of the software product.
- It helps reduce unexpected development costs.

6. Resources and Requirements

For the successful completion of this project, required tools and technologies are as follows:

IDE: Visual Studio Code

Programming language: Php, Bootstrap, Html, CSS, JavaScript

Database: MySQL

Backend Software: Xampp (MySQL)

Framework: Laravel

Designing and Prototyping: Balsamiq Wireframes, draw.io and Figma.

Version Control: GitHub

7. Work Breakdown Structure

The figure of work breakdown structure is shown below:

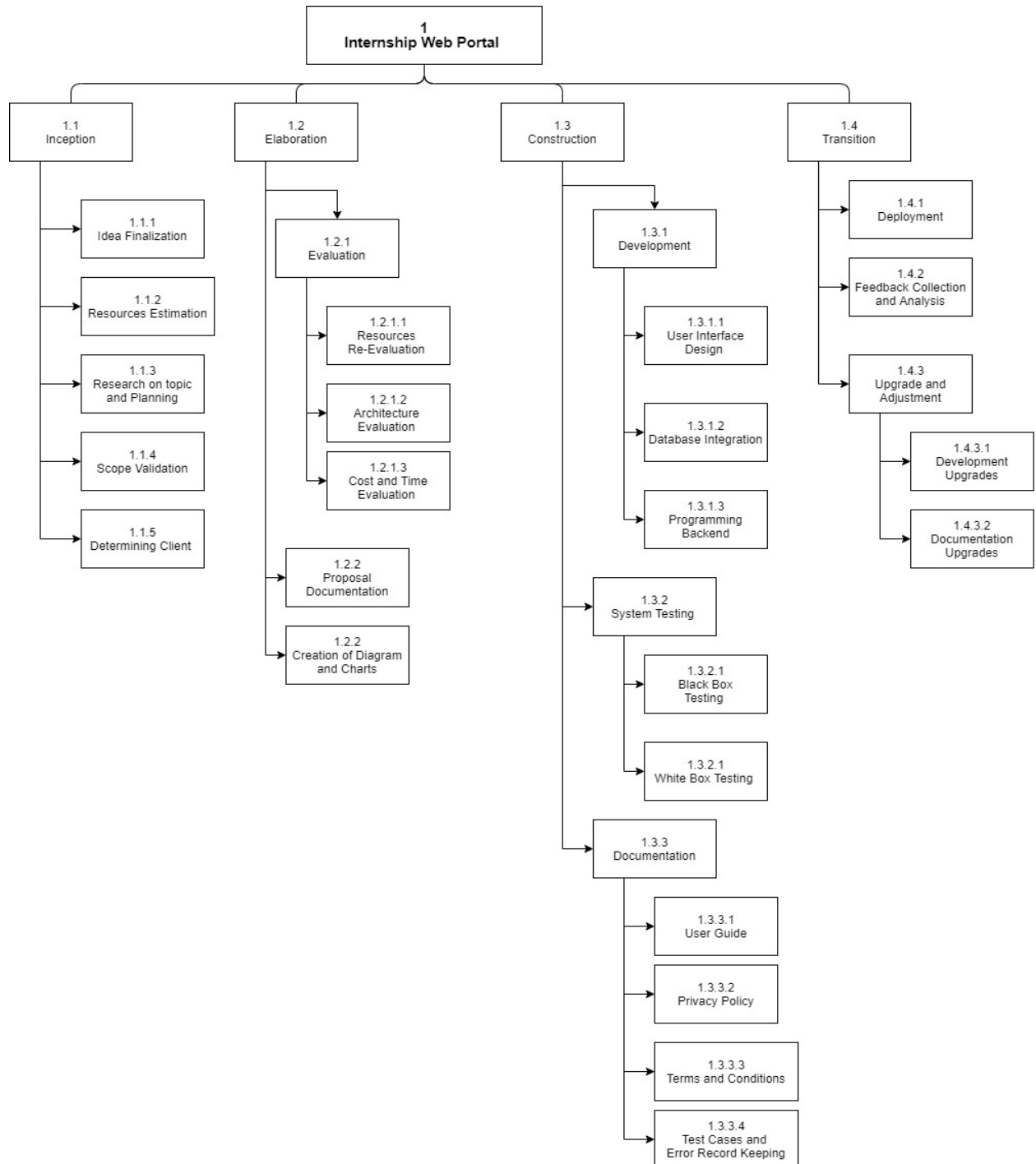


Figure 2: Work Breakdown Structure.

8. Milestones Chart

The figure of milestone chart is given below:

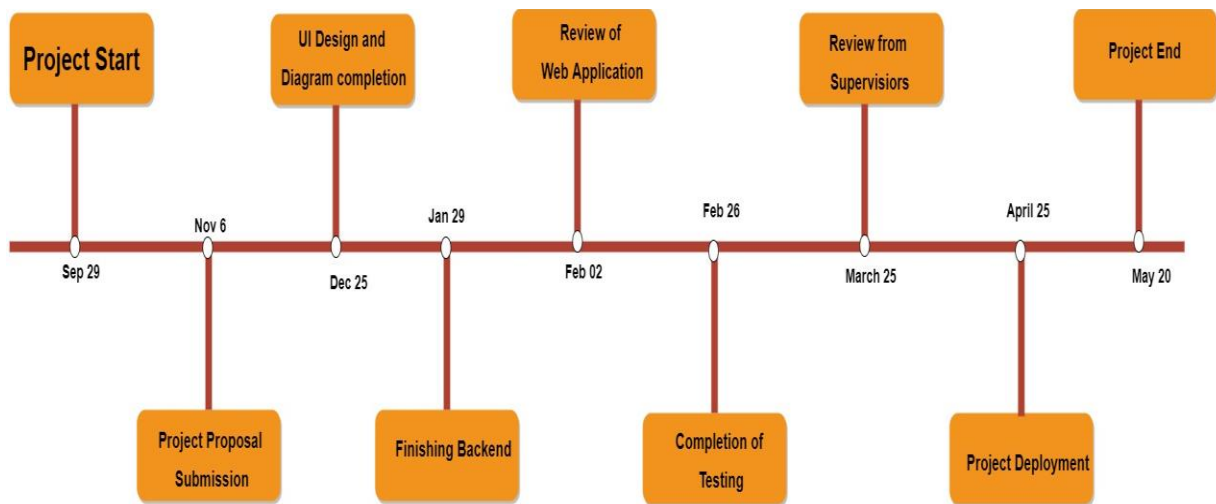


Figure 3: Milestones Chart.

9. Project Gantt Chart

The figure of Gantt Chart is given below:

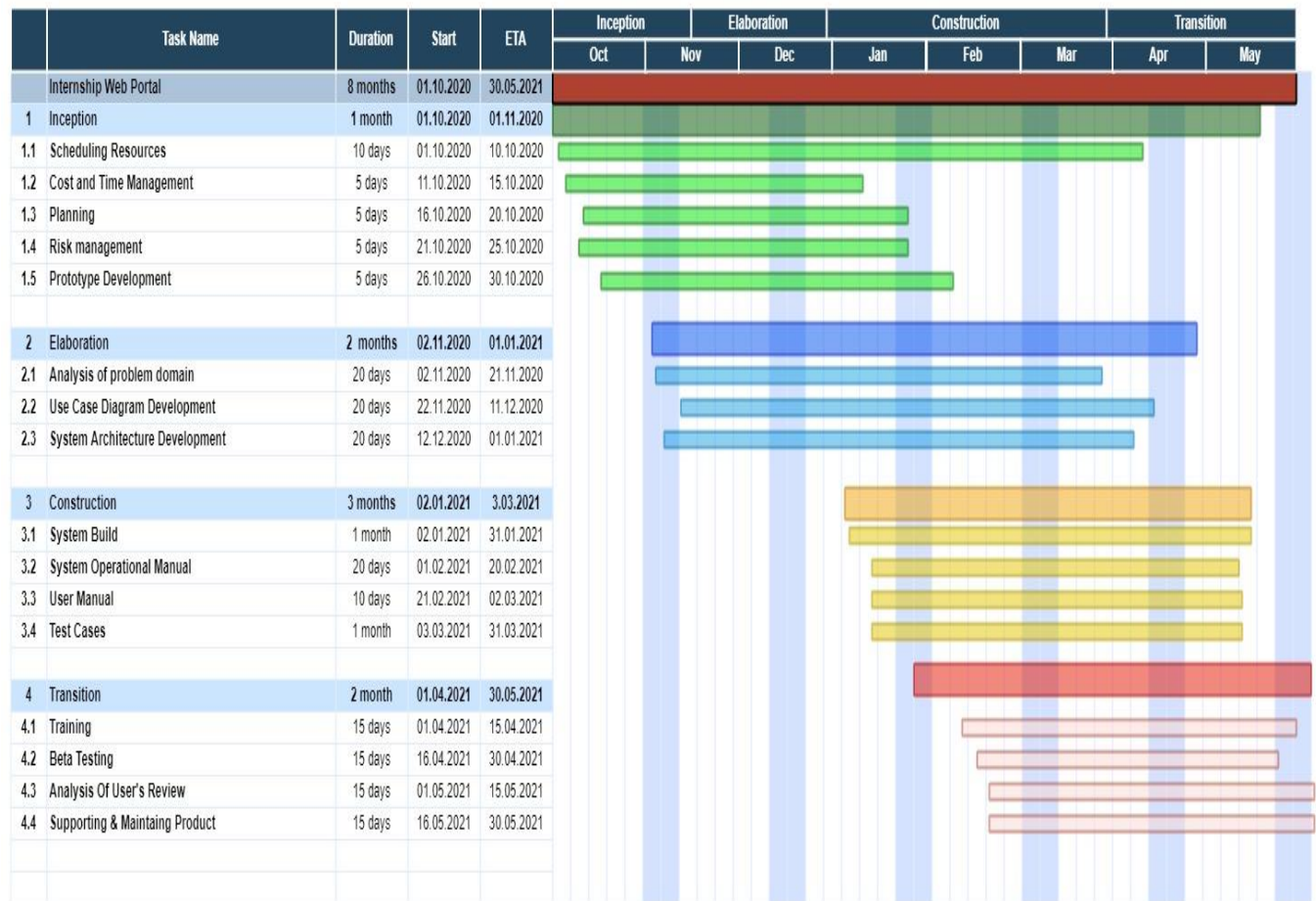


Figure 4: Project Gantt Chart.

10. Conclusion

This web application is developed to eradicate the internship searching problem of final year students. As we know, all the final year students should do internships to exposure the real-time working environment in any company which is related to their field of study. Students must search physically for the company that is providing an internship that consumes a lot of time. Keeping this in mind, I thought an internship web application will eradicate the problems and helps students to find many internship vacancies and save a lot of time. After completion of this project, students will be able to get a hired internship in their dream company near them.

Lastly, I am eagerly looking forward to working on this project and solving difficulties in finding internship problems, the knowledge and experience that I will gain from developing this project will surely help in my future career.

11. Bibliography

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