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FC6P01NT- Final Year Project

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Title: Project Management System

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 awarded

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1. Introduction

A project management system is a set of processes and technology that help company plan, organize, and schedule everything that goes into making a project successful. Project management involves splitting a project into smaller tasks and subtasks, allocating resources to tasks, communicating project status with clients and stakeholders, and other activities that determine the project's overall success. (Kashyap, 2019)

My project is a web based online project for Project Management system. This system is called 'my team'. This system will be build with HTML, CSS Java Script, Bootstrap, with node js as backend and My sql as database for this system. This system contain all the features that a Project management system needs. This system provides an effective solution that allows software company to manage their new and old project . The company finds the project from customer and the project is easily given to the workers. Also this web app allows the Customers to see how far their project has complete.

1.1. Problem Scenario

As we know most of the company facing the many problem when they want to manage their project. Today's project management is a difficult field of work for every company, just because a manager is great and capable of managing individual project does not mean they will be able to effectively manage the whole project. Here are some of the most difficult project management issues that companies face while working on many projects at the same time.

- Project overlapping are usually responsible for the major inefficiencies - money, time, and other resources. When multiple project overlap, they hamper each other and lose potential benefits.
- Delayed projects create uncertainty, delay the time when companies can begin to profit from their businesses, affect accurate payback estimates, and disrupt projected long-term return on investment.
- Communication is essential to completing the project, but team members often complain that providing regular updates and holding meetings is a waste of time. Likewise, managers cannot be expected to save all reports for all teams.
- The client had no idea how far his project was going. So many customers will not give the project next time

1.2. Problem as a Solution

Since there are a lot of difficulties while manage many project , These problem can be solved by using the site I will create. The main goal of this project is . This project is for company who need to manage their multiple project quickly. Using this web app, Customers can easily see how far his project was going. The company manager can easily hand over the project to the workers using this system. This system does not allow projects to overlap and projects can be completed easily on time.

2. Aims and Objectives

The main aim on the project for company to easy to manage company project . our main goals are to assist individuals in findings doctors and scheduling appointments. This web app main objectives are include the successful development of project procedures for initiation, planning, implementation, regulation, and completion, as well as aligning the project team to meet all agreed targets within scope, time, and quality .Also this project provide a reliable, secure , efficient and user-friendly environment for company and customer .

The Project has a various of objectives, which is mentioned below:

- To increase the research skills and presentation skills.
- To create a web app using HTML, CSS, Java Script and NodeJS , which enhanced the skills and knowledge in web Development.
- To make it easy to manage project for company
- To learn how to use the various tools required to complete this app.
- To understand of how a database in implemented in real-world scenario.

3. Expected Outcomes and Deliverables

Project management system is a Web-based pattern that allows company to manage their online using any web-connected device such as a computer, laptop, smart phone, tablet, and so on. It provides a browser-compatible application that utilizes a secure manage project . This system is flexibility allows it to be used for variety of different services and activities for company ,workers and customer .

3.1. Features

- Friendly UI to use for Company, company workers and customer,

Features for Company

- Company admin can add new employees, add new project and assigned project to employees, and they can also add the new customer,
- When the company manager adds new employees or new customers, they create login details to give them login access to system and send login details to their email.
- Admin have the option of granting restricted access to system users to avoid project-level and employee-level disputes.
- Company admin will keep the system up to date
-

Features for company staff

- Employees can see which projects they have been assigned
- Employees can see assigned project details like project details, deadline, customer requirement
- Employees can submit project after the completion of assigned project

Features for customer

- Customers can see how far his project was going
- Customer can easily contact the company in case of any problem
- The customer can also payment for the project through online

More features will be added according to the need of time.

4. Project risks, threat and Contingency Plans

S.N.	Risks and Threats	Probability	Contingency
1.	During The Development Process, Many Errors may Occur	High	The proper implementation of code is the topic of research.
2.	Code delete and misplace	High	Backup the code and data in pen drive.
3.	Difficulty in use UI, UX tools	Medium	Research on website and watch video how to use tools
4.	Failed to meet weekly	low	Work in accordance with the Gantt Chart plan and the set of milestones
5.	Research is being interrupted due to a slow internet connection.	High	Should be available different type of connect such as mobile data or fast WIFI
6.	Difficulties with database implementation	Medium	Research on the topic which is difficulties with database implementation and take help from various website and Youtube Video

Table 1- Project threat risks and Contingency plans

5. Methodology

The consistent methods that must be followed when working on a project are referred to as software development methodology. It dates back to the beginnings of computing and is a combination of design aspirations and pragmatic realities. The goal is to build a systematic process for software development. The following are the most prevalent SDLC mythologies:

- Waterfall Model
- Spiral Model
- Big Bang Model
- V-Shape Model
- Agile Model
- Iterative Model

I like the Rational Unified Process (RUP) technique, which is an agile methodology, for building this web app. RUP divides the project life cycle into four phases. Each phase incorporates all six major development disciplines: business modeling, requirements, analysis and design, implementation, testing, and deployment. The main goal of RUP is to provide high-quality software on a predictable budget and timeline. Each of the life cycle phases can be repeated as needed until the primary objectives are met. When the transition phase is effectively completed, the project is finished. RUP is divided into four phases, which are listed below:

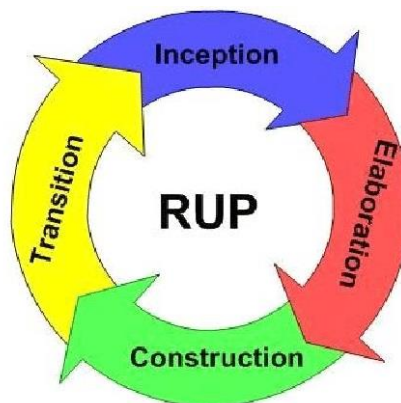


Figure 1- RUP Methodology

Inception Phase

The main idea and structure of the project are defined during the first phase. The team meets on a regular basis throughout this phase to assess the project's need, as well as its viability and suitability. The projected expenses and resources required to finish the project once it has been granted the green light are also included in viability and acceptability.

Elaboration Phase

The system's requirements and needed architecture are examined and analyzed during the elaboration phase. This is the point at which the project starts to take form. The elaboration phase's goal is to analyze goods and create the ground work architecture.

Construction Phase

The software system is built in its entirety during the Rational Unified Process (RUP) building phase. The focus is on the creation of system components and other features. This is also where the majority of the coding takes place. The emphasis in this production method is on cost and resource management, as well as quality assurance.

Transition Phase

The transition phase's goal is to transfer the product to a new user. Problems nearly always occur as soon as the user begins to utilize the system, necessitating system modifications. The objective, on the other hand, is to guarantee that the user has a good and easy transition.

(Coutinho, 2021)

(toolshero, 2018)

6. Resource Requirements

We're all know that completing a project or system need a varied set of resources.

The fundamental supplies required to complete this project are as follows:

PC (windows 10) with Browser

- IDE : Visual Studio for writing Code
- Adobe XD for making design of web app
- Draw.io for drawing of different figures
- Dummy project information
- Database : mysql
- Backend language: node js
- Programming language : javascript
- Project management information
- Microsoft word for documenting project

7. Work Breakdown structure

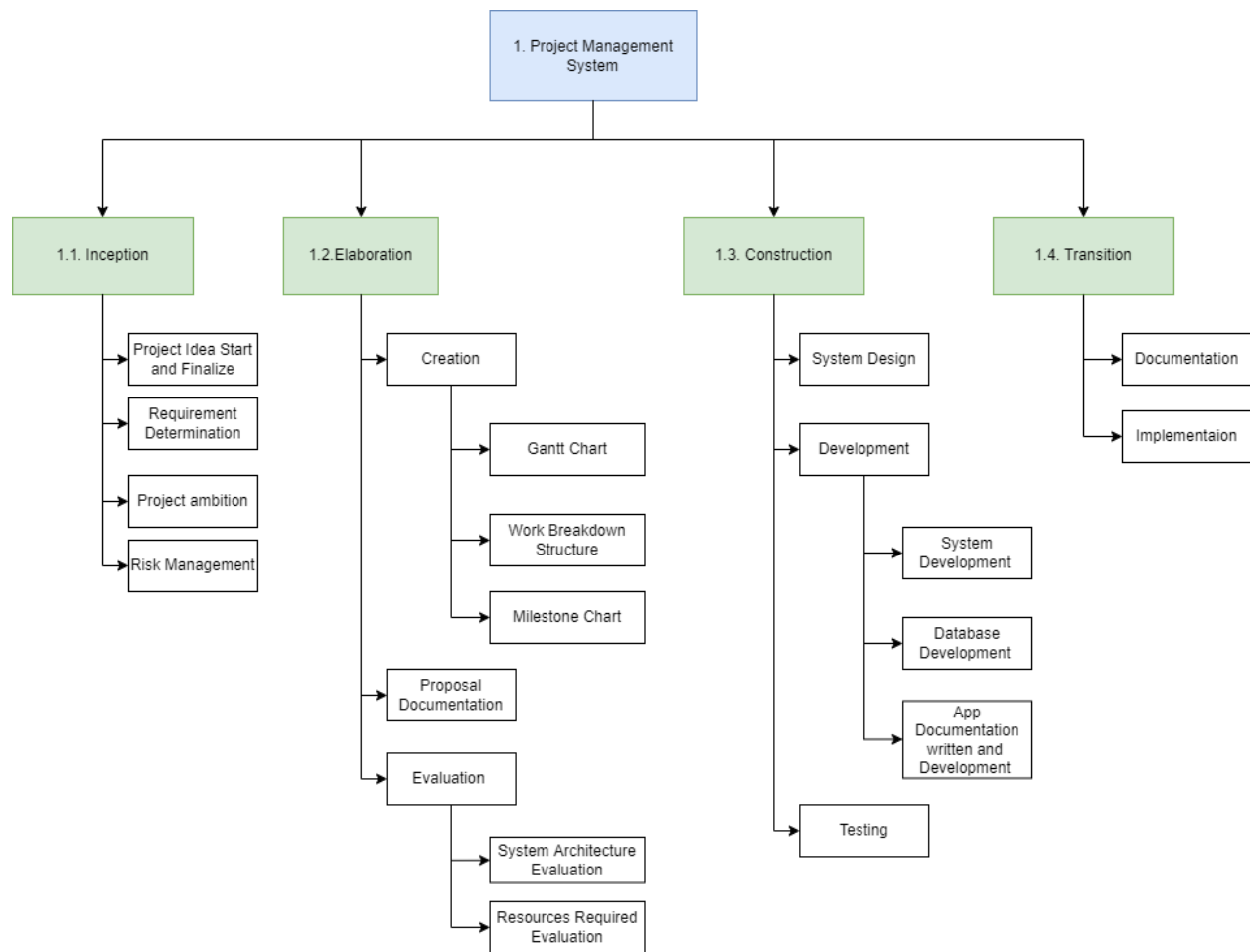


Figure 2- Work Breakdown structure

8. Milestones Chart

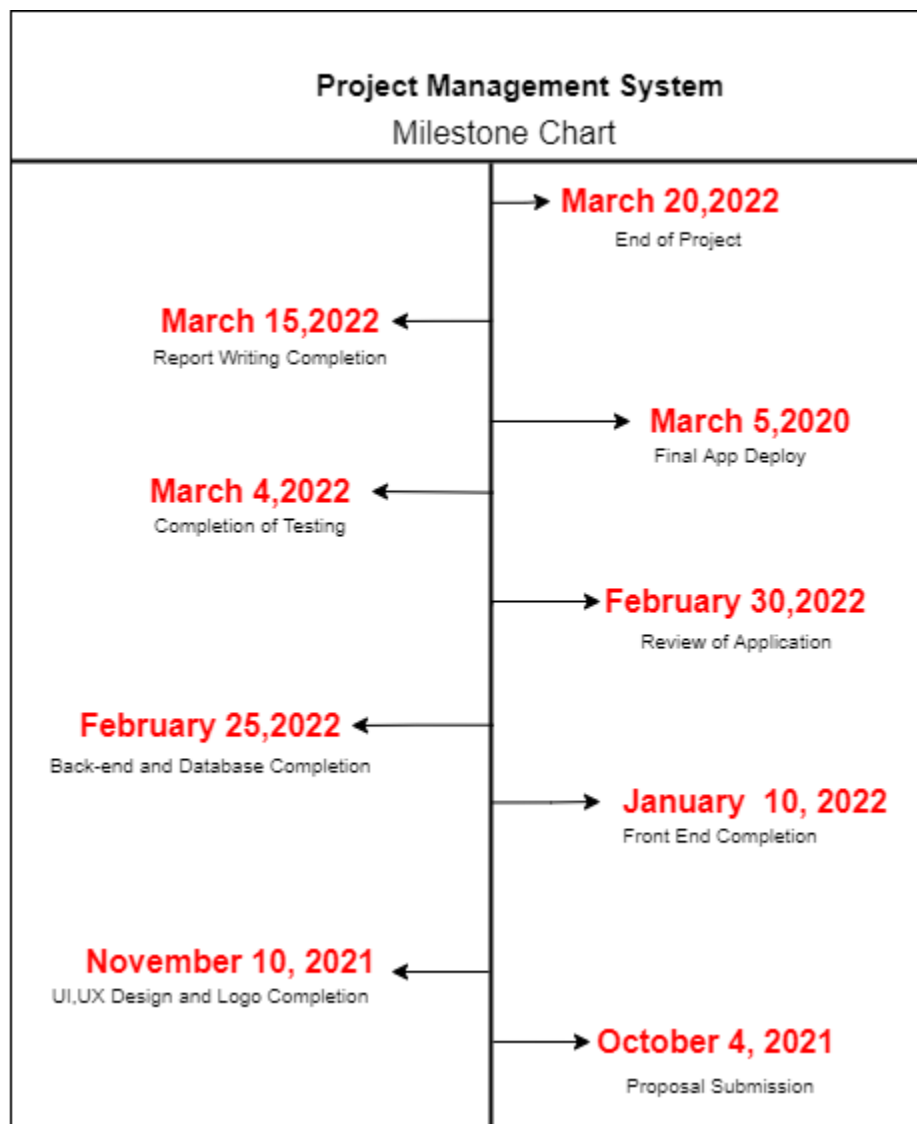


Figure 3- Milestone chart

9. Project Gantt chart

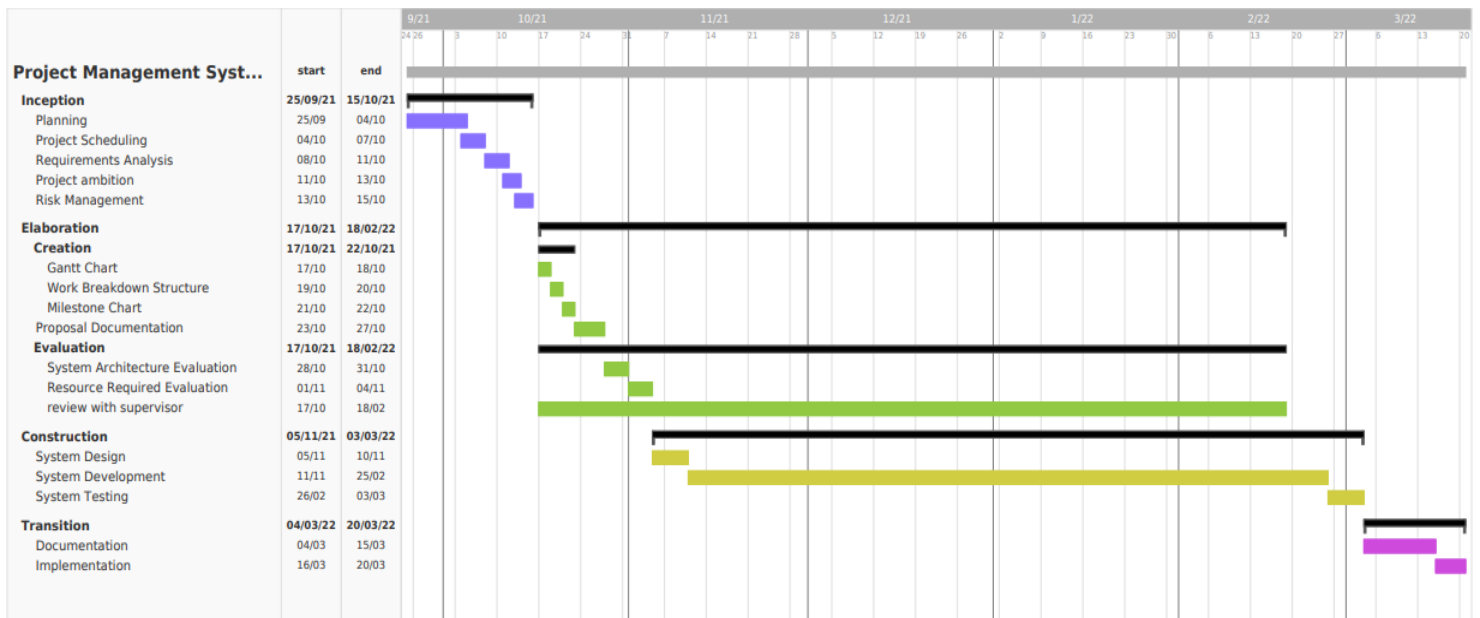


Figure 4- Gantt Chart

10. Conclusion

For the organization to govern the project, project management is key. In order to build a successful project plan, a team leader must understand the project lifecycle, risk, and risk management. 'my team' is a service that allows company to manage project through secure website. This service which has resulted from the rapidly growing internet technology, clearly has many advantages for the company to manage their project. This is a web-based application that solves the problem of scheduling and managing project for the IT company. this web app Allows the entrepreneur to reduce and eliminate inherent risks while increasing the probability of success in the implementation and ongoing operations.

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