Palestine Technical University – Kadoorie

College of Engineering and Technology

Department of Computer Systems Engineering

Course name:

Software Engineering

Project title:

Developing Graduation Projects Hub Website

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Introduction

Embarking on a graduation project is a pivotal moment for students, yet students struggle with lack of resources, guidance, and collaboration opportunities and guidance. To address this, we decided to create a website to facilitate graduation project improvement. Our platform enables users to access and share ideas, fostering innovation and collaboration for enhanced project outcomes.

Background and overview:

Graduation project is an essential requirement for students through their study years till graduation. It's required to be of a high level of importance. Majority of projects were noticed to be simpler and repeated more than required. Students find difficulty and lose guidance.

In order to improve our projects outcomes we intended to build a website to assist improving graduation projects.

This website helps users to keep updated on what is already done. Users are able to access and share different ideas and work on them.

Importance of the project:

The Graduation Projects Hub, a platform aimed at facilitating communication, and sharing resources for students undertaking graduation projects. The Graduation Projects Hub serves as a centralized platform for students to list their projects, connect with project owners and access resources to enhance their project development process.

Students are able to address the challenges faced by them during their graduation period, such as a lack of resources, guidance, and collaboration opportunities. By providing a centralized platform for students to connect, collaborate, and access resources, the project aims to enhance the overall project outcomes, and facilitate knowledge exchange among students.

Objectives :

objectives that should be achieved are:

- Facilitate communication, share resources, and connect with project owners and access resources.
- Discuss ideas, opinions and thoughts and improve them.
- Review projects and build feedback.

Project scope:

This project targets university students and supervisors, building a union for project work.

Services:

provide a database reference for students to find project ideas, facilitate communication between students and supervisors, and offer solutions. Also it provides information about the progress of graduation projects and permits a space to discuss questions and give feedback. Feedbacks that are provided helps avoid others' faults.

System Features(System description):

1- Functional Requirements:

a- User Registration and Profile Creation:

 Students should be able to register on the platform and create a profile, providing essential details such as their name, academic institution, field of study, and project category.

b- Project Listing and Search Functionality:

 Students should be able to list their graduation projects on the platform, including project details, objectives, and progress. Additionally, they should be able to search for projects based on the category of the project.

c- Messaging System:

 A messaging system will be implemented as a contact form to facilitate communication between students and project owners. This allows students to inquire about project details and seek clarification.

2- non-Functional Requirements:

Performance: The platform should be responsive and with downtime at maximum reach 5 minutes.

Security: security measures should be implemented to save user data and prevent unauthorized access.

Scalability: The platform should be designed to accommodate an increasing number of users and projects over time.

Accessibility: The platform should be accessible to all different types of users

Usability: The platform should have a user-friendly interface to ensure ease of use for students of varying technical backgrounds.

Work Plan:

Weeks	Achievement	Students
Week 1	1-Database schema Design	Falastin Bawaqna Iman Ayat
week 2	3-UI Design	Falastin Iman Ayat
Week 3	1-Backend setup and Environment configuration 2-user Authentication	Falastin
Week 4	1-Database implementation 2-API Development 3-integration with Frontend	Falastin
week 5	1-user interface implementation 2-Frontend component implementation	Ayat Iman
week 6	1-Messaging system implementation 2-Integration and testing	Ayat Iman

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