PUCIT

Punjab University College of Information Technology

Final Project Proposal

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1   Introduction

In today's dynamic start-up landscape, finding trusted mentors can be a challenge.

That's where the Mentor-Ship Platform comes in. We connect aspiring founders with experienced mentors who can provide them with the guidance and support they need to succeed.

Our mission is simple, to bridge the mentorship gap and empower entrepreneurs. We do this by providing a platform where founders can find mentors who match their needs and goals. We also offer a variety of resources and tools to help founders build relationships with their mentors and get the most out of their mentorship experiences.

Whether you're a founder looking for guidance or a mentor looking to share your wisdom, the Mentor-Ship Platform is the place for you. Sign up today and start your journey to success!

Platform stands as your dedicated gateway to excel in the multifaceted world of start-up entrepreneurship.

1.1   Project Title

MENTORHUB.

1.2   Project Overview Statement

Our "Mentor-Ship Platform" project is on a mission to transform the world of startups by connecting new founders with experienced mentors. This innovative platform seeks to bridge the gap in mentorship, making it easier for aspiring startup founders to access valuable guidance.

Our goal is to foster a supportive community where everyone can learn from one another and collaborate to turn their startup ideas into reality. By leveraging cutting-edge technology, we aim to create an invaluable resource that empowers the next generation of entrepreneurs, fuels economic growth, and revolutionizes the way startups are nurtured.

This project goes beyond technology; it's about shaping the future of entrepreneurship in a meaningful and impactful way.

Project Title:	Mentorship Platform

Group Leader:	Mubashir Ali

Organization Address (if any):	Punjab University (old campus)

Project Members:

Name	Registration	Email Address	Signature
Rizwan Abid	Bsef20a006	Bsef20a006@pucit.edu.pk	
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Mubashir Ali	Bsef20a017	Bsef20a017@pucit.edu.pk	
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Project Goal:

The goal of this project is to create a website platform that connects aspiring start-up founders or entrepreneurs with industrial expert mentors, who have a proven track record of success in the start-up world.

The primary goal of this platform is to help entrepreneurs overcome the challenge of building and growing their start-up.

Target End users:

- Start-up Founders
- Experienced mentors

Objectives:

Sr.#	
1	Build a website bridging mentors and start-up founders.
2	Foster meaningful mentor-founder relationships.
3	Enable easy discovery and connections.
4	Provide access to valuable mentor resources.
5	Facilitate real-time communication for timely guidance.
6	Support founders in overcoming entrepreneurial challenges, benefiting the economy and society.

Project Success criteria:

Our project's success hinges on three core criteria: fostering valuable mentor-founder connections, boosting entrepreneurial growth, and enhancing knowledge sharing.

We will gauge this success by monitoring user engagement, mentorship interactions, and positive feedback.

Ultimately, our platform's impact on start-up success will be the yardstick for its effectiveness.

Assumptions:

- Availability of willing mentors.
- Active user engagement.
- Quality mentorship provision.
- Positive user reviews.
- Adequate technical resources.

Risks:

- Mentor shortage.
- Low user engagement.
- Mentor quality concerns.
- Negative mentor reviews.
- Technical challenges.

Obstacles:

- Mentor recruitment.
- User adoption.
- Data privacy.
- Continuous improvement.
- Algorithm development.

Type of project:

❑ Research   ▣ Development

Development Technology:

▣ Object Oriented   ❑ Structured

Platform:	☐ Web based ☐ Desktop based ☐ Other_____	☐ Distributed ☐ Setup Configurations
Suggested Project Supervisor:	Dr. Madiha Khalid	
Approved By:		
Date:		

1.6 Project Goals and Objectives

Goals:

The goal of this project is to create a website platform that connects aspiring start-up founders or entrepreneurs with industrial expert mentors, who have a proven track record of success in start-up world.

The primary goal of this platform is to help entrepreneurs overcome the challenge of building and growing their start-up.

Objectives:

Our objectives are to build a website that work as a bridge between mentor and mentee to create a meaningful relationship between mentors and start-up founders. The start-up founders can easily discover and connect with suitable mentors and can access valuable resources of mentors and can access valuable resources of mentor to achieve his goals. The platform will be a resource hub for entrepreneurs.

The main objective of the platform is to provide a real-time communication to ensure that founders get timely advice and guidance from mentors.

It also include building a user-friendly website that bridges mentors and start-up founders, fostering meaningful relationships, enabling easy discovery and connections, providing access to valuable mentor resources, facilitating real-time communication for timely guidance, and supporting founders in overcoming entrepreneurial challenges for the benefit of the economy and society

➢ Overall the objective/goal of the platform is to help start-up founders to overcome the challenges which they face, by providing valuable advice, guidance and resources at all stages of their entrepreneurs journey. This can have an impact on economy and society as a whole.

1.12   High-level system components

No.	Components	Description
1	User and Mentor Profile Management Component	• This component manages the creation and maintenance of user and mentor profiles. It stores information about users' goals, skills, and expertise, as well as mentors' background and expertise.
2	Search and Discovery Component	• This component allows users to discover mentors based on their needs and preferences. It implements a search and filtering system that enables users to search by subject, name, or other criteria.
3	Dashboard and Notification System	• Provides personalized dashboards for both users and mentors. • Allows users to track their interactions, access resources, and receive notifications about new opportunities.
4	Communication and Messaging Component	• Facilitates real-time messaging and communication between users and mentors. • Enables users to seek advice and guidance from mentors.
5	Payment and Billing Component	• This component facilitates payments for mentor services. It may use a third-party payment processor or develop its own payment processing system.
6	Mentorship Advice Component	• Facilitates guides within the community by providing a "Mentor Column." • Users can read the advice and insights of multiple mentors on various start-up topics
7	Resource Management Component	• This component manages the storage and delivery of mentorship resources, such as documents, and notes. It allows users to access and utilize these resources for learning and guidance.

8	Feedback and Reporting Component	• Gathers user feedback on the quality of mentorship and platform performance. • Utilizes feedback to continuously improve the platform. • All mentor's favourite and exciting reviews section

1.13   List of optional Functional unit

In addition to above mention all features; we will also try to cover three more useful functionalities in our Mentorship Platform:

1. **Interactive Forums and Discussions:**
   Enable founders and mentors to engage in vibrant discussions, share ideas, seek guidance, and collaboratively solve challenges.

2. **Availability Calendar (Web scraping) :**
   This can be used to keep track of mentors' availability, events, or speaking engagements by scraping event websites like Google calendar. Streamlining mentor-mentee matching and enhancing overall efficiency

3. **City Squads (Local Networking and Collaboration Component) :**
   • Enables founders to connect with peers who share similar geographical locations or goals.
   • Promotes local networking, events and collaboration among start-up founders.

4. **Recommendation of Founder-Mentor Matchmaking   (Machine Learning)**
   Implement an algorithm that suggests suitable mentors to founders based on their goals, skills, and expertise. This enhances the matchmaking process and helps founders find the right mentor.

1.10   Exclusions

Due to time limit and rich functionality of our Mentorship Platform, we will be able to deliver only **High-level system components** of our Platform mentioned above.

• Web Scrapping functionality which is **Web Scraping for Reviews**
• Where Founders can leave reviews and ratings for their Mentors. This feature will help New Founders to find best Mentor and help to make informed decisions from ratings and reviews of specific Mentors given by previous Founders.
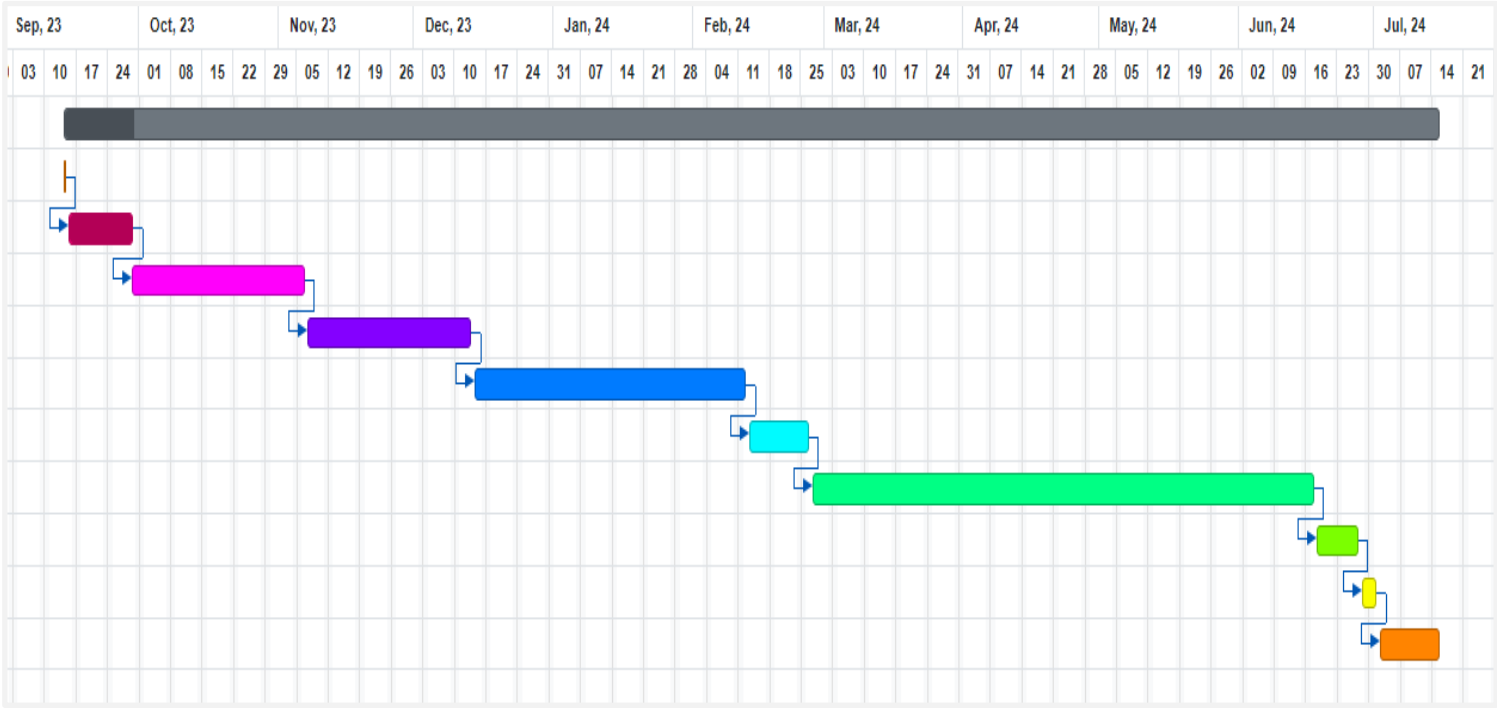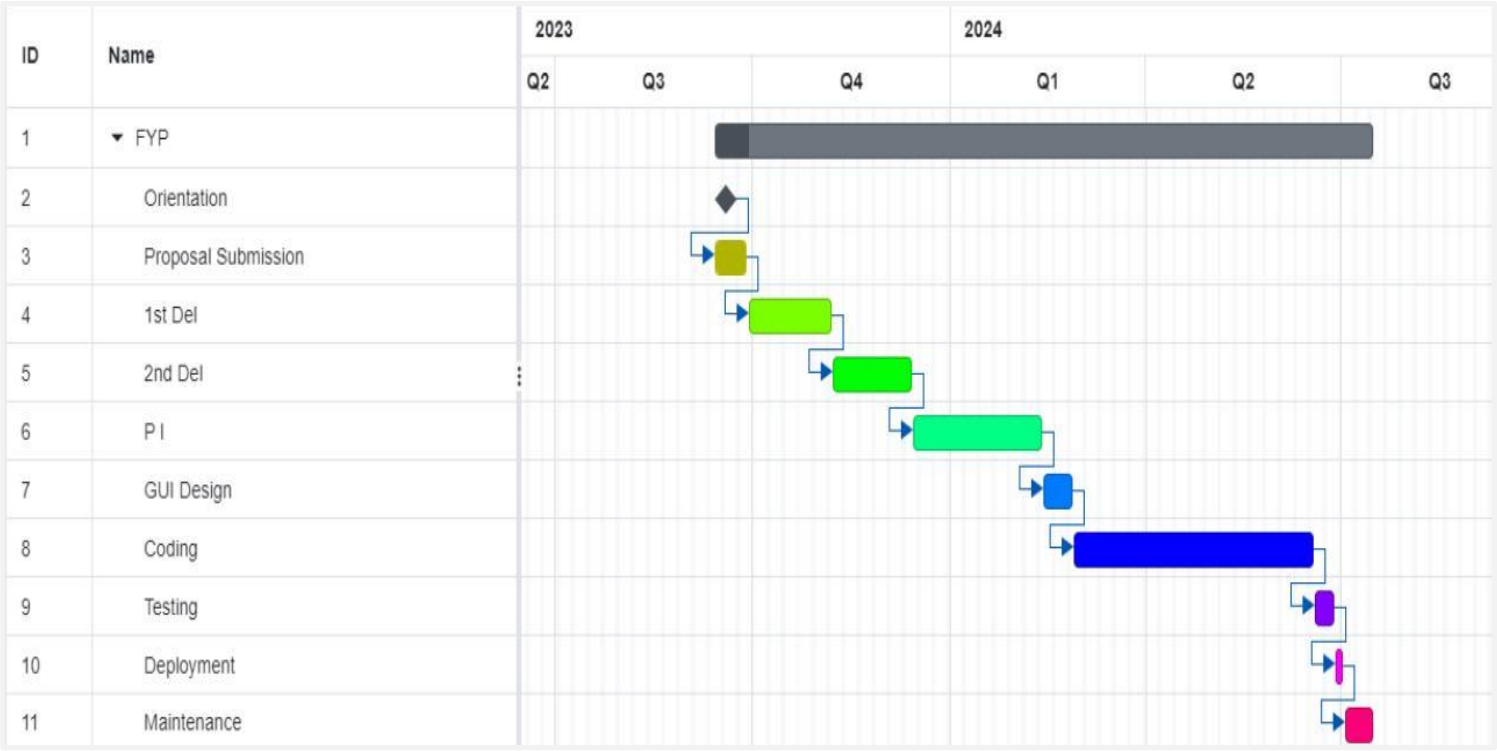
1.14   Application Architecture

In our Mentorship Platform we will use **MVT Architecture pattern** of Django for development due to responsible for handling presentation and rendering pages, clear separation of concerns, making it easier to maintain and scalability of Platform easily and also reusability of components.

- React (Front End)
- Python Django (Back End)
- MySQL (Database)

1.15   Gantt Chart

Our project timeline is detailed in the Gantt chart provided, outlining key milestones and their respective timeframes.

Sr	Task Name	Start Time	End Time	Duration (Days) – 5day per week
1	Orientation	_____	_____	0
2	Proposal Submission	Sep 15, 2023	Sep 29, 2023	11
3	1st Deliverable	Sep 30, 2023	Nov 07, 2023	27
4	2nd Deliverable	Nov 08, 2023	Dec 14, 2023	27
5	Prototype Review 1	Dec 15, 2023	Feb 13, 2024	43
6	GUI Design	Feb 14, 2024	Feb 27, 2024	10
7	Coding	Feb 28, 2024	Jun 18, 2024	80
8	Testing	Jun 19, 2024	Jun 28, 2024	8
9	Deployment	Jun 29, 2024	Jul 02, 2024	2
10	Maintenance	Jul 03, 2024	Jul 16, 2024	10

ID	Name	2023				2024		
		Q2	Q3	Q4		Q1	Q2	Q3
1	▾ FYP							
2	Orientation							
3	Proposal Submission							
4	1st Del							
5	2nd Del							
6	P I							
7	GUI Design							
8	Coding							
9	Testing							
10	Deployment							
11	Maintenance							

1.15   Hardware and Software Specification

Recommended Requirements:

- Internet connection.

    Client-Side Hardware Requirements:

- Mobile Phone or Desktop
- Minimum 4Gb RAM
- Processor: Intel Core i5 or equivalent

    Client-Side Software Requirements

- Windows 8/10/11

1.16   Tools and technologies used with reasoning

Tools

Tools	Reason for Using
PyCharm	Use as IDE for backend (Django) development.
Postman	Use for API testing.
VS Code	Use as IDE for front end development with React.
GIT and GitHub	Use for collaboration of team.
MS Word	Use for documentation.
Figma/Adobe XD	Use for Screen's design/Prototyping.
Lucidchart/Edraw	Use for Pictorial representation of Mentorship Platform.

Technologies

Technologies	Reasons for Using
MySQL	Use for database management
Django	Use for backend development
ReactJS	Use for frontend development
RESTful API	Use to enable communication and data exchange between a client (such as a web browser) and a server.