



FACULTY OF COMPUTING & INFORMATION TECHNOLOGY (FCIT)  
UNIVERSITY OF THE PUNJAB - LAHORE

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**FINAL YEAR DESIGN PROJECT (FYDP)  
PROPOSAL DOCUMENT  
“Project Office Online Management System”**

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## *1. Introduction*

### *1.1 Project Title*

“Project Office Online Management System”

### *1.2 Project Overview Statement*

Final year design projects is an important component of higher education degrees which helps to consolidate students' learning by providing an opportunity for applying a broad range of knowledge to a real life problem while developing other useful skills and during this activity student face a lots of difficulties in finding correct idea and selecting a correct supervisor. Project Office App will provide students a platform where they can interact with teachers, discuss their ideas, scroll through others' ideas then select an idea & supervisor for their final year design project.

Moreover, when students graduate from university and go into their professional life. They face difficulties in adjusting in that environment because they have never used professional tools nor have work like a project team before. Project Office provide the project management module where everyone will work as a team in a professional environment and have a taste of some important tools like GitHub, Slack, and Trello in this module.

## Project Overview Statement Template

Project Title: Project Office Online Management System			
Group Leader: Adnan Ahmad Tahir			
Project Members:			
Name	Roll no. #	Email Address	Signature
Project Goal:			
To provide a platform to students where they can interact with teachers and select an idea & supervisor for their FYP and work on their FYP in an online and professional environment.			
Objectives:			
Sr. No.			
1	Online forum of student and supervisor interaction		
2	Availability of FYP ideas for Students.		
3	Working in professional environment and tools		
4	Integration of Github, Slack and Trello.		
5	Complete project monitoring.		
6	Availability complete senior students' projects.		

<b>Project Success criteria:</b> When our system is complete and is in running state, ideas are available for students. They select an idea and their supervisor and start working on their final year design project and is monitored successfully till its end.		
<b>Assumptions, Risks, and Obstacles:</b> 1- Integration copyrights. 2- Our system may get slow in case of heavy traffic.		
<b>Organization Address (if any):</b>		
<b>Type of project:</b>	<input type="checkbox"/> Research	<input type="checkbox"/> Development
<b>Target End users:</b> 1- University Students		
<b>Development Technology:</b>	<input type="checkbox"/> Object Oriented	<input type="checkbox"/> Structured
<b>Platform:</b> <input type="checkbox"/> Web based <input type="checkbox"/> Distributed <input type="checkbox"/> Desktop based <input type="checkbox"/> Setup Configurations <input type="checkbox"/> Other _____		
<b>Suggested Project Supervisor: Prof Dr Shahzad Sarwar</b>		
<b>Approved By: Mr Ejaz Ashraf</b>		
<b>Date: October 7, 2023</b>		

### *1.4 Project Goals & Objectives*

#### Goals

Our main goal is to develop such a platform for students where they can find ideas and supervisors for their final year project and work in professional environment with supervisor.

#### Objectives

- Online forum of student and supervisor interaction.
- Availability of FYP ideas for Students.
- Working in professional environment and tools.
- Integration of GitHub, Slack, and Trello.
- Complete project monitoring.
- Availability complete senior students' projects.

### *1.5 High-level system components*

Generally, an integrated application is composed of many different components that work collectively to address the problem for which the system has been devised. The high-level system components / modules for our application are the following:

- Authentication
- Idea Sharing
- Supervisor
- Project Office
- Communication
- Notifications
- Project Upload

### *1.6 List of optional functional units*

- Integration with social media
- Feedback Module

### *1.7 Exclusions*

There will be no exclusions in our project.

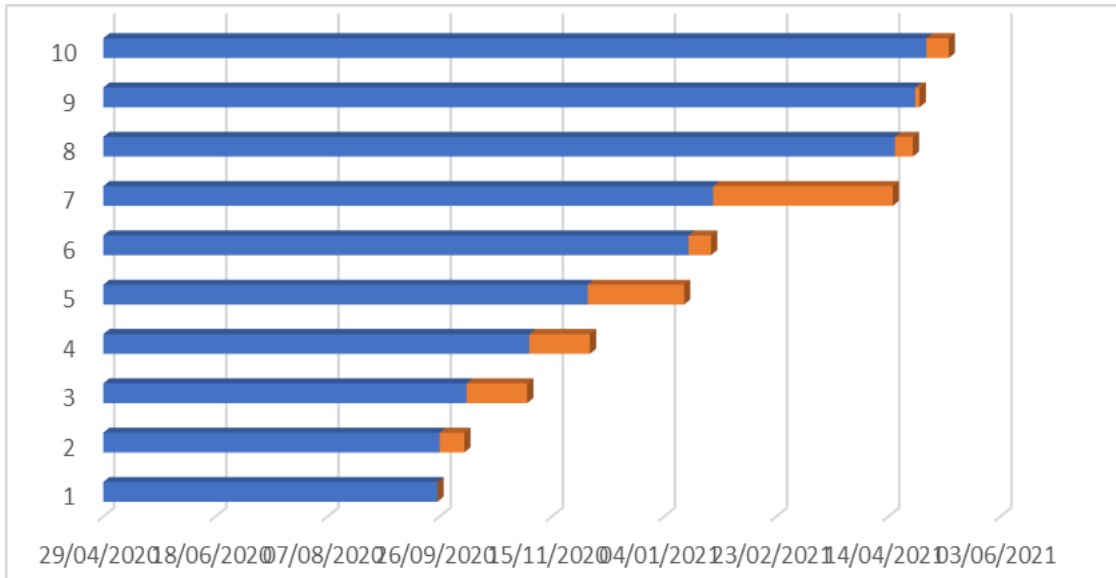
### *1.8 Application Architecture*

We will follow 3-tier Architecture.

- React Native (Front End)
- Python (Back End)
- Postgres (Database)

### *1.9 Gantt chart*

Sr. No.	Task Name	Start Date	End Date	Duration (Days)
1.	Orientation			0
2.	Project Proposal Submission			11
3.	Deliverable-I			27
4.	Deliverable-II			27
5.	Prototype-I			43
6.	GUI Design			10
7.	Software Development			80
8.	Testing			8
9.	Deployment			2
10.	Maintenance			10



### 1.10 Hardware and Software Specification

#### Hardware: (Recommended)

- 3.6 GHz Octa-core Processor
- Qualcomm Snapdragon 630
- 8 GB RAM
- 50 GB Storage

#### Software: (Recommended)

- Android 14+
- iOS 17+

### 1.11 Tools and technologies used with reasoning

#### Tools:

##### Nuclide

Nuclide is a package by Facebook that is integrated with Atom editor. It is especially used to build mobile apps with React Native. It comes with great



features like elements inspection and allows you to live edit React Native elements.

### Android Studio and Xcode

Xcode is Apple's development environment tool, for iOS, MacOS, etc. Xcode is your tool to bulletproof your React Native apps for iOS.

The "Xcode version" for android. Android Studio enables building and debugging React Native apps.

### Bit

It solves the problem of sharing and collaborating on UI components across repositories. It's also a powerful way to compose UIs with shared components, independently developed, versioned and updated.

### MS Project

MS project can clearly identify time, resources and cost. And then, MS project have a lot of features such as project guide, help, templates, task drivers and multilevel undo compare with MS Excel.

### Technology:

#### React Native

It enables a single JavaScript codebase for 2 different platforms. This means that it is not just easier to maintain the app by having the same development process for both platforms and reusing the same code

#### Python

Because of its emphasis on code readability and its vast libraries and frameworks, Python is an ideal backend language when it comes to this area of

technology. Moreover, Python has a vast set of libraries specific to machine learning, such as Keras, TensorFlow, and Scikit-learn.

### Postgres

PostgreSQL is rapidly growing to become an alternative to Oracle DB. It's the most preferred Open-source database for heavy load data warehouse system. It has now got support from Enterprise DB, a database software company.