

Software Requirements Specification(SRS)

PROJECT TRACKER

NAME	SAMIHA ARAFAIN S
PROJECT ID	2
PROJECT TITLE	Project Tracker
STACK	Python Stack
DEPARTMENT	CSE
ROLL NO	7376221CS284

TECHNICAL COMPONENTS

COMPONENT	TECH STACK
Frontend	HTML CSS JS
Backend	Python DJANGO(Python Web)
Database	PostgreSQL MySQL
API	OpenAPI SOAP APIs RESTFul API

IMPLEMENTATION TIMELINE

Phase	Deadline	Status	Stage Description
Stage 1	05.06.2024	Under review ▾	Planning and Requirement Gathering
Stage 2		In progress ▾	Design and Prototyping
Stage 3		In progress ▾	Database Design and Implementation
Stage 4		Not started ▾	Backend Development
Stage 5		Not started ▾	Integration and Testing
Stage 6		Not started ▾	Deployment:

PROBLEM STATEMENT:

Develop a project tracker application that allows individuals to manage their projects efficiently, saving time and ensuring timely completion. The application should:

Track Project Progress: Provide a centralized platform for individuals to track their project progress, including tasks, deadlines, and milestones.

Streamline Task Management: Allow individuals to assign and manage tasks, set deadlines, and prioritize tasks to ensure efficient use of time.

Automate Task Reminders: Send automated reminders for upcoming deadlines and task completions to help individuals stay on track.

Monitor Progress: Provide real-time visibility into project progress, enabling individuals to identify areas for improvement and adjust their workflow accordingly.

Approve Projects: Implement a multi-stage approval process, allowing individuals to submit their work for approval and receive feedback based on predefined criteria.

Integrate with Calendar: Integrate with the individual's calendar to schedule tasks and deadlines, ensuring seamless integration with their daily routine.

Customizable: Offer customizable settings to accommodate individual preferences and workflows, ensuring the application is tailored to their specific needs.

PROJECT-FLOW:

Purpose

The purpose of the Project Tracker System is to enhance project management by improving resource allocation and enabling real-time progress tracking.

It aims to streamline issue resolution, ensure task accountability, centralize project data, and increase transparency.

Ultimately, it seeks to improve efficiency, collaboration, and project success rates within organizations.

Scope

The Project Tracker System will include task management, resource allocation, issue tracking, real-time reporting, user permissions, tool integrations, centralized data storage, mobile access, and customization options.

This comprehensive scope ensures efficient project management, enhanced collaboration, and improved project success rates for organizations.

Features

The Project Tracker System aims to enhance project management efficiency, resource allocation, and team collaboration across BIT.

It will provide real-time tracking and transparency for all projects, contributing to organizational productivity and success.

The primary stakeholders for individual projects at BANNARI AMMAN INSTITUTE OF TECHNOLOGY (BIT), apart from the admin, include students, faculty advisors/mentors, project collaborators (if applicable), and BIT administration, all contributing to project success through guidance, collaboration, and support.

Considerations:

All users possess active Google accounts for authentication. Users have regular access to internet-enabled devices.

Dependencies:

Integration with Google OAuth for user authentication. Consistent performance and availability of the existing project management tools and servers.

USER PERSONAS:

Project Manager: Needs to track project progress, allocate resources efficiently, and ensure project milestones are met.

Team Member: Requires clear task assignments and timelines to complete their work effectively.

Department Head: Oversees multiple projects and needs to ensure they align with strategic goals.

Admin Staff: Manages system operations, resolves conflicts, and ensures data integrity.

FUNCTIONAL REQUIREMENTS:

FOR STUDENTS:

1. View Schedule:

Access an up-to-date schedule of projects and deadlines.

2. Receive Notifications:

Get timely updates and notifications for any changes in project schedules.

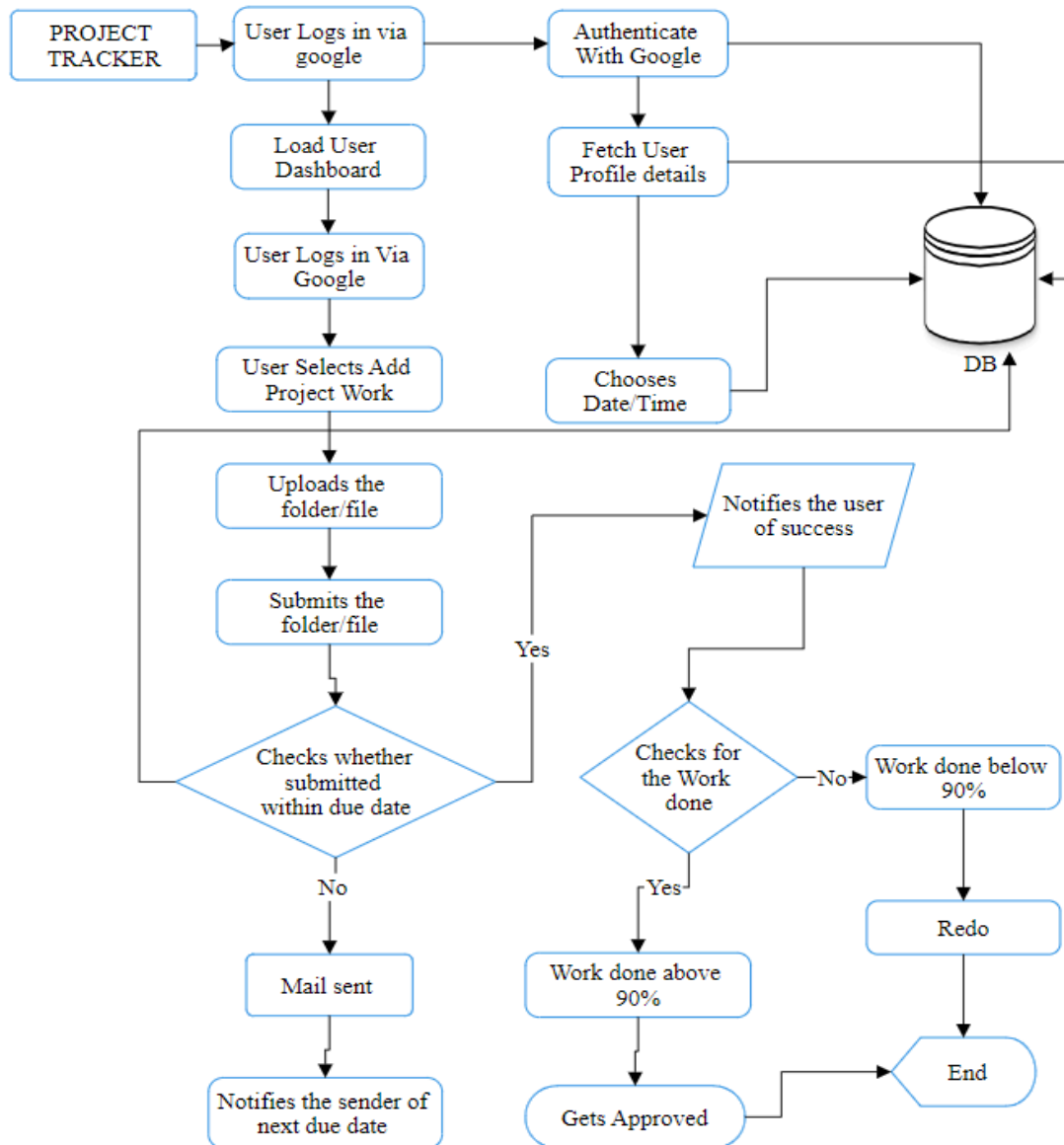
3. Manage Projects:

Add, edit, and organize personal project tasks and deadlines.

4. Collaborate:

Communicate with faculty and peers for project-related queries and updates.

FLOWCHART:



FOR FACULTY:

1. Create and Update Schedules:

Set up and modify project deadlines and schedules.

2. Send Notifications:

Send out updates, notices, and reminders to students about project changes.

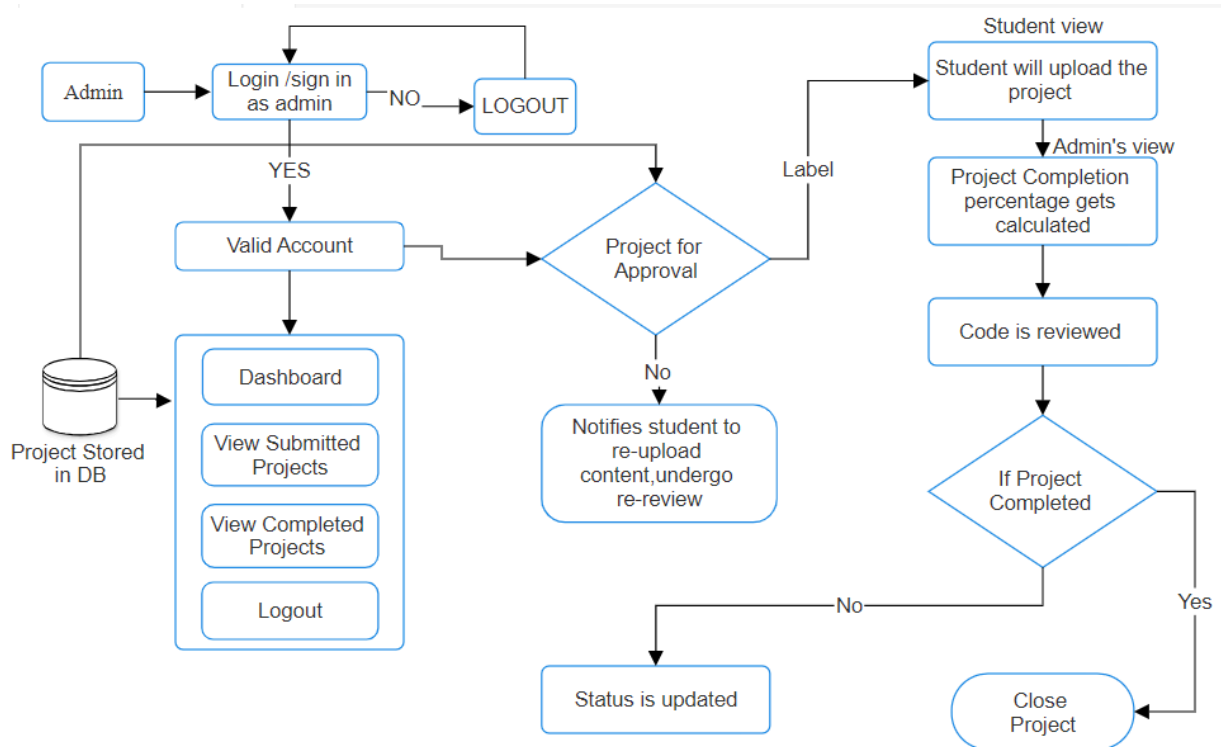
3. Track Progress:

Monitor student progress on projects and provide feedback.

4. Manage Submissions:

Set up submission portals and review submitted projects.

FLOWCHART:



FOR ADMIN STAFF:

1. User Management:

Create, edit, and delete user accounts and manage user permissions.

2. Conflict Resolution:

Address and resolve any system or user conflicts promptly.

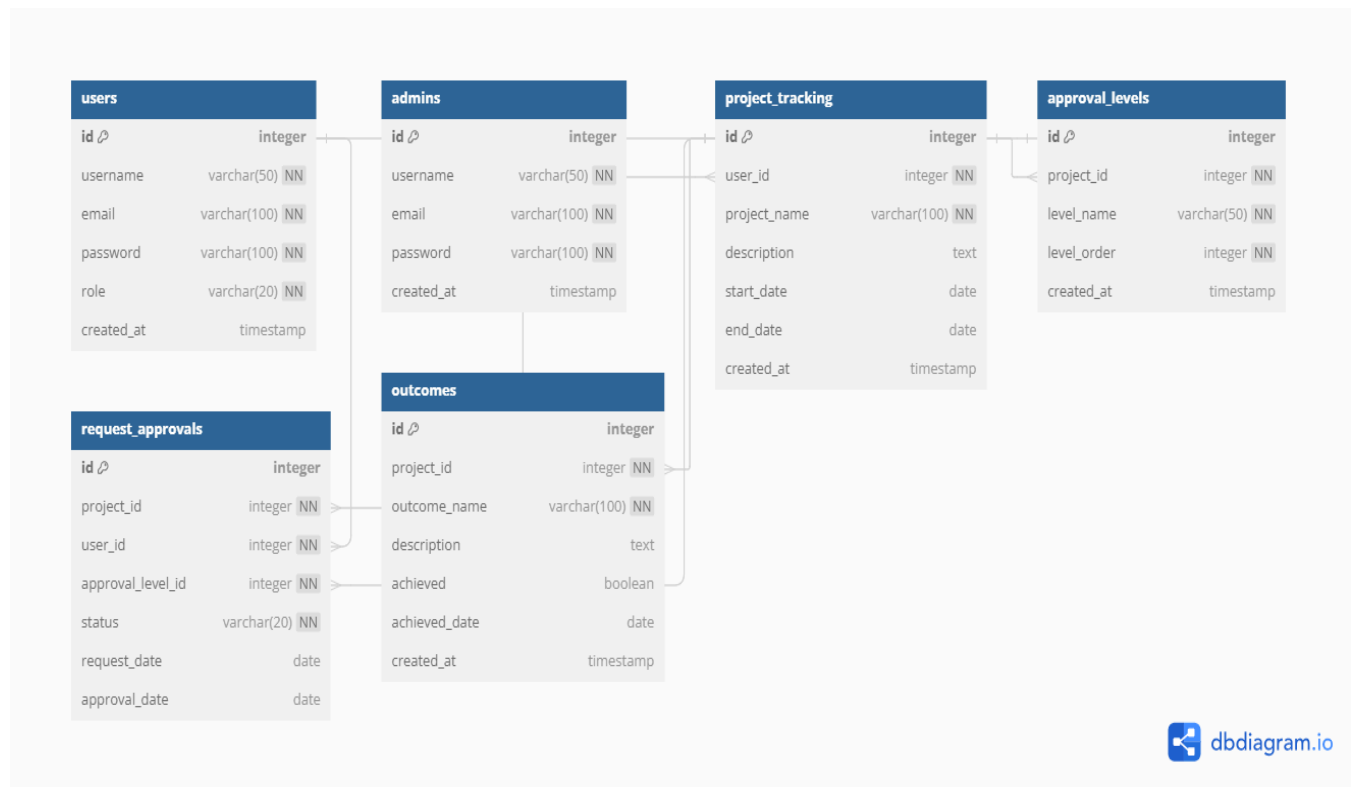
3. Approve Mail Requests:

Approve or reject mail requests related to project updates and notices.

4. System Maintenance:

Ensure the system is running smoothly and securely, performing regular maintenance and updates.

ER Diagram:



UI DESIGN:

