



BANNARI AMMAN INSTITUTE OF TECHNOLOGY
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Software Requirement Specification

STUDENT NAME : GOWSALYA B

ROLL NO : 7376222AL134

PROJECT ID : 02

STACK : JAVA SPRING BOOT

PROJECT TITLE : PROJECT TRACKING

Technical Components

Components	Tech Stack
<i>Backend</i>	<i>Spring Boot</i>
<i>Frontend</i>	<i>React.js</i>
<i>Database</i>	<i>MySQL</i>
<i>API</i>	<i>RESTful services</i>

Implementation Timeline

Phase	Deadline	Status	Notes
Stage 1	20-07-2024	Completed	Planning and Requirement gathering
Stage 2		Under review	Design and Prototyping
Stage 3		Under review	DB Designing
Stage 4		In progress	Backend Implementation
Stage 5		Not started	Testing & Implementation

PROBLEM STATEMENT:

The decentralized nature of project management within organizations leads to several challenges, including:

- 1. Inefficient Collaboration:** *Team members and collaborators often work in silos, leading to miscommunication and duplicated efforts.*
- 2. Lack of Visibility:** *Project managers struggle to obtain real-time updates on project progress, making it difficult to make informed decisions.*
- 3. Resource Conflicts:** *Inefficient resource allocation results in conflicts and project delays.*
- 4. Tracking Issues:** *Difficulty in tracking task completion and the overall project status.*

PROJECT-FLOW:

Purpose:

To develop a centralized project tracking system that efficiently manages project lifecycles, integrating seamlessly with GitHub for better tracking, collaboration, and completion.

Scope:

This system includes user authentication, GitHub link reminders, marks and deadline leaderboard, origin process integration, weekly tracking and verification, and project completion verification.

Business Context:

The centralized project tracking system aims at enhancing project management efficiency and team collaboration by providing a secure and proprietary solution, avoiding the use of open-source utilities.

Consideration:

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

Dependencies:

- *Integration with GitHub for user authentication and project tracking.*
- *Consistent performance and availability of GitHub services.*

User Personas:

- **Student:** *Needs an up-to-date schedule to effectively plan activities.*
- **Faculty:** *Requires the ability to send out schedule updates and notices efficiently.*
- **Admin Staff:** *Manages system operations, resolves conflicts, and approves project progress.*

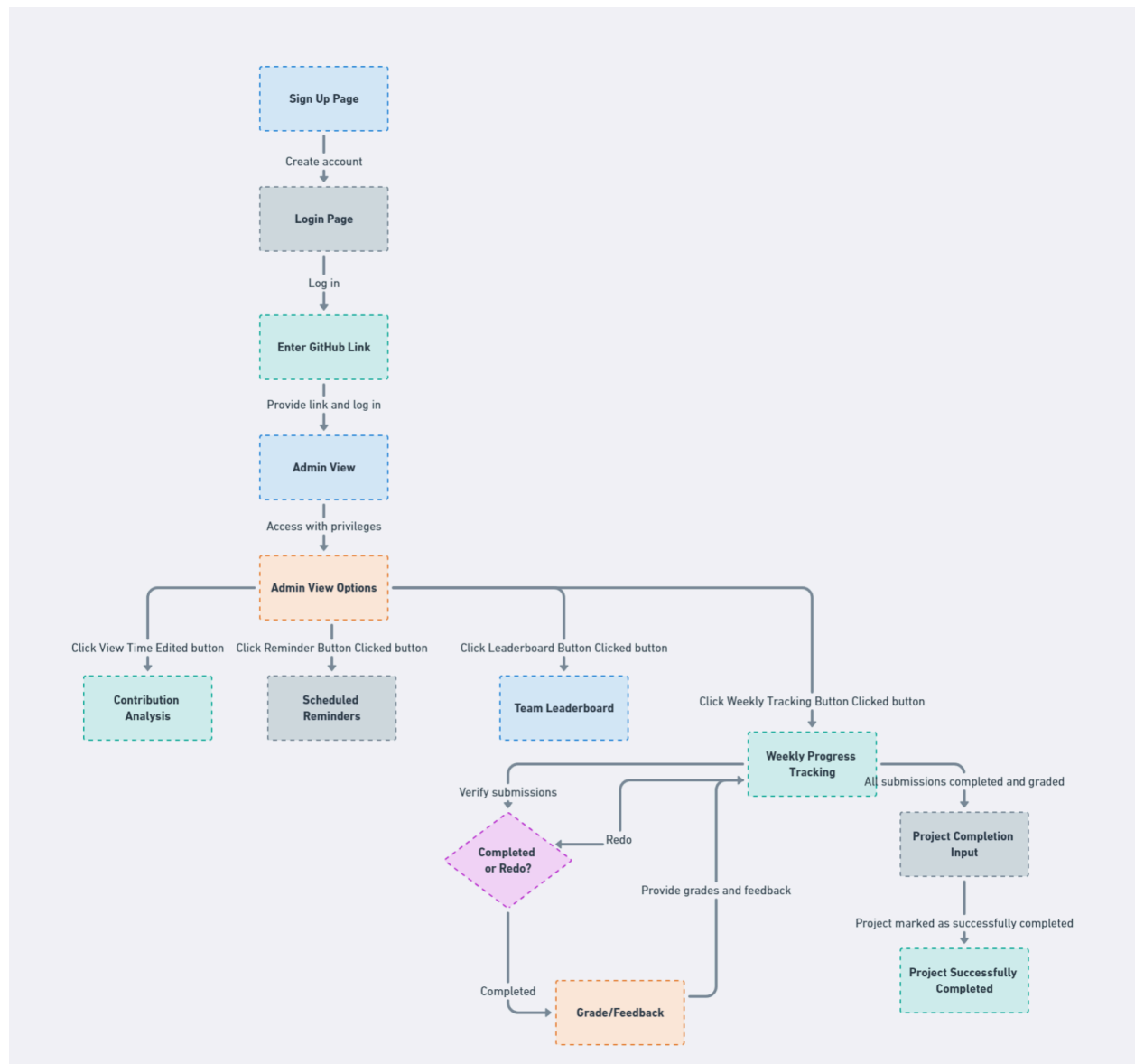
User Stories:

- *As a student, I want to view a unified schedule of my tasks and events to organize my day effectively.*
- *As a faculty member, I need to ensure my communications reach students without conflicting with their other scheduled activities.*

Functional Requirements:

- ***User Authentication:*** Secure login using GitHub OAuth.
- ***GitHub Link Reminders:*** Users receive reminders for GitHub link updates.
- ***Marks and Deadline Management:*** Track deadlines, assign marks, and create a leaderboard.
- ***Origin Process Integration:*** Seamless GitHub integration for better tracking.
- ***Weekly Tracking:*** Implement weekly tracking and verification of project progress.
- ***Project Completion Verification:*** Ensure all project requirements are met for final submission.

FLOW CHART :



ER - Diagram :

