



Register Number: 7376222AL109

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Seat No : 186

Project ID : 02

Project title : PROJECT TRACKING

Technical Components

Component	Tech Stack
Frontend	HTML, CSS, JAVASCRIPT
Backend	Django
Database	MySQL
API	RESTful services

Implementation Timeline

PHASE	DEADLINE	STATUS	NOTES
Stage 1	-	Under Process •	Planning and Requirement Gathering
Stage 2	-	Not Started •	Design and Prototyping
Stage 3	-	Not Started •	DB Design and Implementation
Stage 4	-	Not Started •	Backend Development
Stage 5	-	Not Started •	Integration and Testing
Stage 6	_	Not Started •	Deployment

PROBLEM STATEMENT:

For projects to be successfully completed within the allotted time, money, and scope, effective project tracking is crucial. In order to track progress, assign resources, and guarantee that tasks are finished on schedule, this project intends to create an extensive project tracking system. Team members' capacity to collaborate, communicate, and take responsibility will all be enhanced by the system:

- Monitoring Progress: Keep tabs on the advancement of each assignment as well as the project as a whole.
- **Resource Management:** To avoid bottlenecks and guarantee maximum utilization, allocate and manage resources efficiently.
- o **Timeline Management:** Monitor project timelines in real-time to make sure tasks are finished by the deadline.
- Collaboration: Encourage team members to communicate with one other and work together.
- **Reporting:** Produce reports that include information about the state of the project, how resources are being used, and any possible dangers.

PROJECT-FLOW:

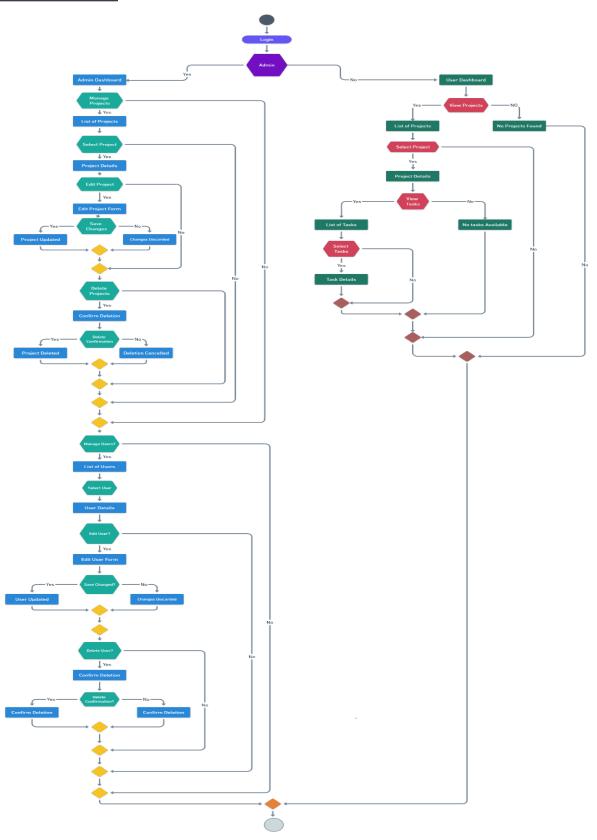
Purpose:
☐ The goal is to make project management easier by offering a centralized platform for teamwork, resource optimisation, and real-time tracking.
☐ It seeks to guarantee timely completion of projects, improve visibility, and support efficient communication.
☐ Enhancing organizational effectiveness and completion rates serves as the ultimate objective.
Scope:
☐ For projects of various complexity levels, Project-Flow will provide task management, resource allocation, and real-time progress tracking.
☐ It will provide tools for effective risk management, collaboration among teams, and thorough reporting.
☐ The technology will function in tandem with current technologies to improve productivity and guarantee thorough project management.
Business Context:
☐ The project's goal is to put in place a thorough tracking system for company activities, guaranteeing efficiency and visibility in real time.
\square This system will increase decision-making, optimize resource allocation, and streamline procedures.
☐ It is essential for attaining strategic objectives and performance optimisation.

Consider	rations:
data unv Sca tech	ta Security and Privacy: Ensuring that the tracking system conforms with a protection laws and protects confidential company data from breaches or vanted access. Alability and Integration: In order to accommodate future expansion and annological breakthroughs, the system must be designed to be both scalable readily integrated with current platforms and tools.
Depende	ncies:
crue data Maj AP: will S3)	meworks and Libraries: To construct the tracking system, you'll need cial Python libraries like Flask or Django for web development, Pandas for a processing, and SQLAlchemy for database ORM (Object-Relational pping). Is and External Services: Functionality and interoperability of the system depend on integration with external services like cloud storage (like AWS , authentication services (like OAuth), and third-party APIs for data sharing lireal-time changes.
User Per	sonas:
☐ Adı	ident: Needs an up-to-date schedule to effectively plan activities. min Staff: Manages system operations, resolves conflicts, and approves mail uests.
User Sto	ries:
so t Ad gen	dent (User): As a student, I want to track my project progress in real-time that I can stay organized and meet deadlines effectively. Imin Staff (Admin): As an admin, I want to monitor all student projects and erate reports on progress, so I can provide support and identify areas needing provement.

Functional Requirements:

\square User Authentication: The system must allow users to securely register, log in,
and manage their profiles.
☐ Project Tracking: Users should be able to create, update, and manage multiple
projects, including setting deadlines and milestones.
\square Progress Monitoring: The system must provide real-time status updates and
visual representations (e.g., Gantt charts) of project progress.
☐ Reporting Tools: Admin staff should be able to generate detailed reports on
project statuses, user engagement, and performance metrics.
\square Notifications and Reminders: The system must send automated
notifications and reminders to users about upcoming deadlines and important
updates related to their projects.
Non-Functional Requirements:
☐ Performance and Scalability: Handle up to 10,000 concurrent users with
minimal latency and scale to support growing demands.
☐ Reliability and Security: Ensure 99.9% uptime with robust failover
mechanisms, data redundancy, and compliance with data protection regulations.
☐ Usability and Integration: Provide an intuitive, accessible interface and
seamless integration with popular tools and devices for flexible access.

FLOWCHART:



ER DIAGRAM (DB DESIGN):

