



Student Name: NANAKA P M V

Seat No: 82

Project ID: 09

Project title: (Faculty Log) Mailer BIT

Technical Components

Component	Tech Stack
Backend	Python
Frontend	HTML,CSS,JS
Database	MySQL
API	RESTful services

Implementation Timeline

Phase	Deadline	Status	Notes
Stage 1	19/07/2024	Approved ▾	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 email communication within educational institutions leads to several challenges, including:

1. **Conflicting messages:** Different departments send out emails separately, often repeating information or sharing different versions of the same message.
2. **Scheduling issues:** Students and teachers get multiple emails about events that happen at the same time, making it hard to keep track and attend important things.
3. **Information overload:** Important announcements get buried in a sea of emails, making it difficult to find and act on crucial information.
4. **Extra work:** Managing email lists, fixing scheduling mix-ups, and making sure important messages are delivered on time takes up too much of staff and teachers' time.

PROJECT-FLOW:

Purpose:

- Create a centralized communication platform to streamline student schedule and activity updates, eliminating overlapping schedules and inconsistent information.

Scope:

- Secure user login
- A tool to request email sends
- Automatic checks for scheduling conflicts
- A live dashboard to monitor and manage schedules
- Integration with existing email systems to prevent scheduling overlaps and ensure timely delivery.

Business Context:

The centralized mailing system aims to improve communication clarity and timeliness within BIT, hence increasing organizational efficiency by reducing schedule conflicts. Students, teachers, administrative staff, and the information technology department are the primary stakeholders.

Consideration:

- All users have active Google accounts and regular internet connectio

Dependencies:

- Implement Google OAuth for user authentication.
- Ensure consistent performance and availability of the existing email server.

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 mail requests.

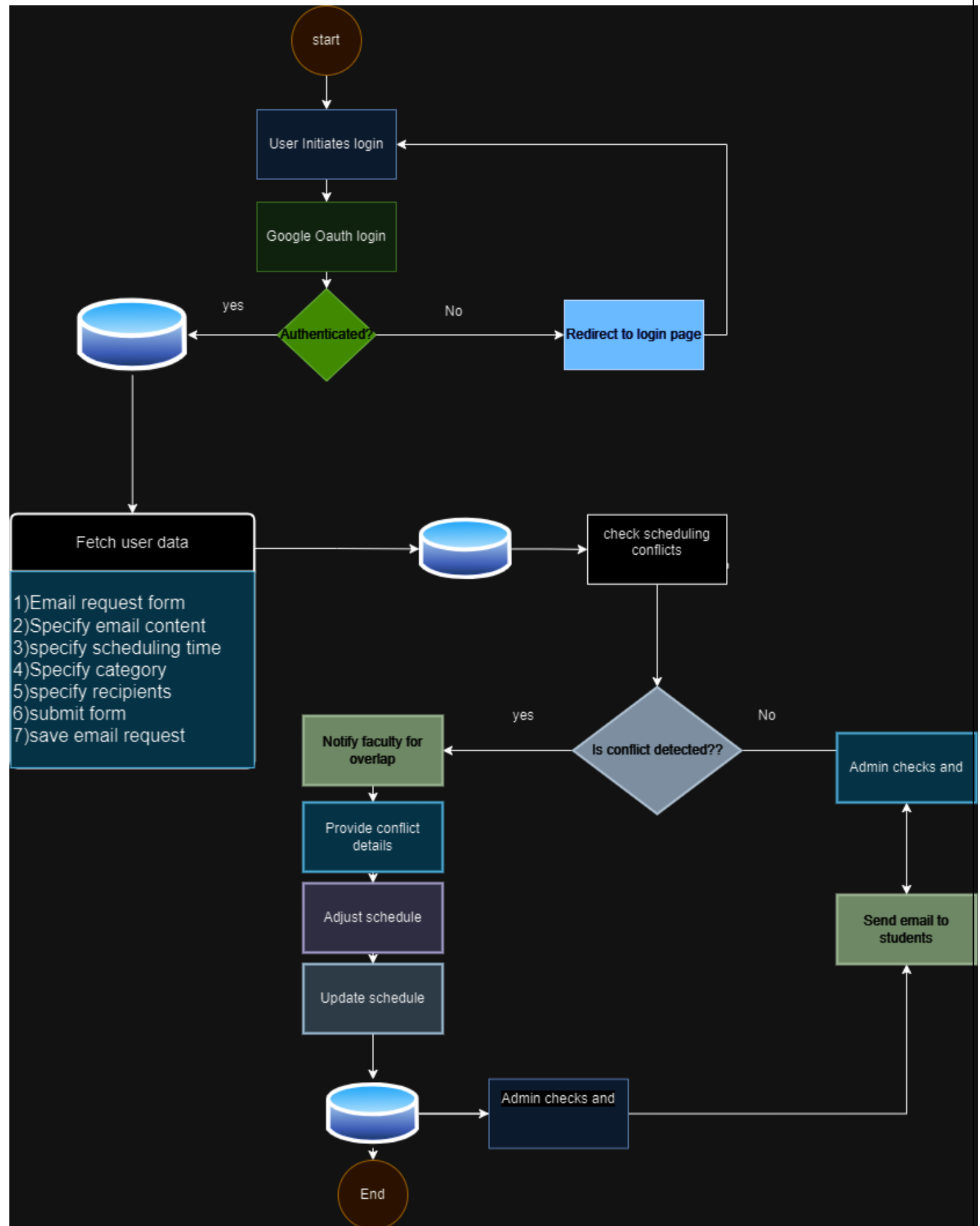
User Stories:

- As a student, I want to see a combined schedule of my classes and events to better organize my day.
- As a faculty member, I need to make sure my communications reach students without clashing with their other scheduled activities.

Functional Requirements:

- User Authentication: Secure login using Google OAuth.
- Mailer Request Form: Users can specify email content, scheduling time, category, and recipients.
- Conflict Resolution: Automatically detects and adjusts schedule issues.
- Dynamic Dashboard: View schedules in real time and interact with them.
- Priority Algorithm: Automated prioritization of communications according to established rules.

FLOW CHART:



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