Jewels Academy Time Management Application

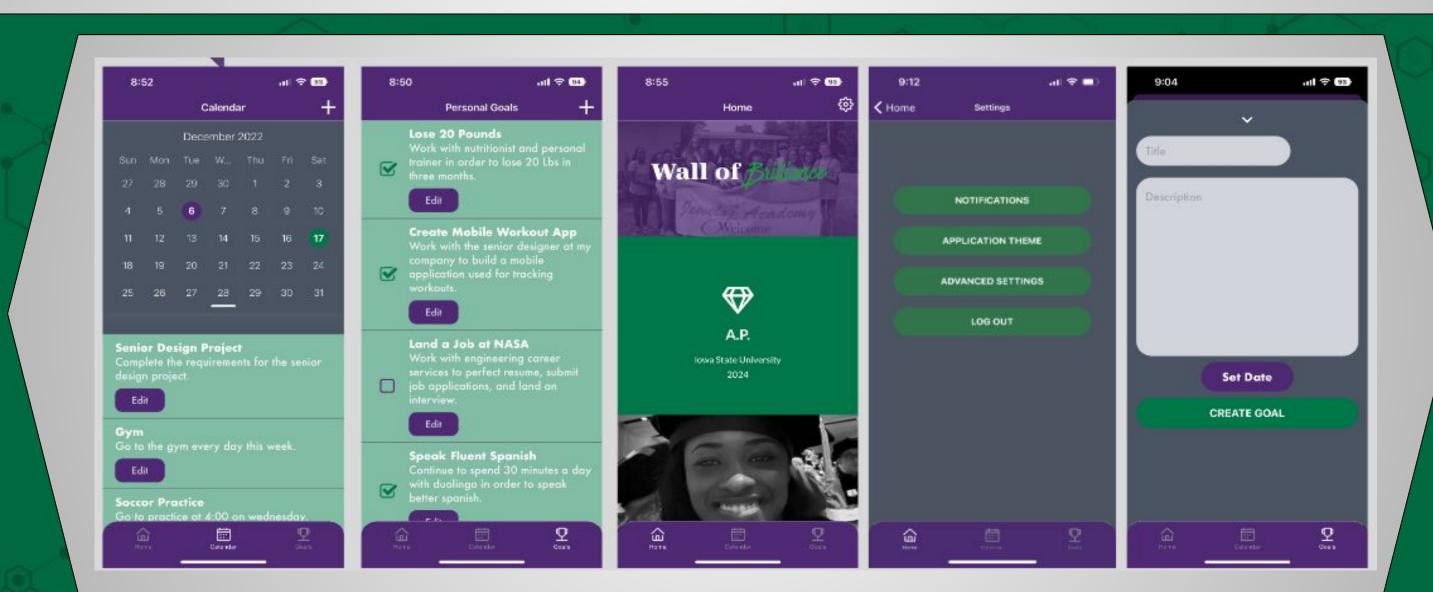
Team Members:

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SDDEC22-06

Client: Murugan Nambiar

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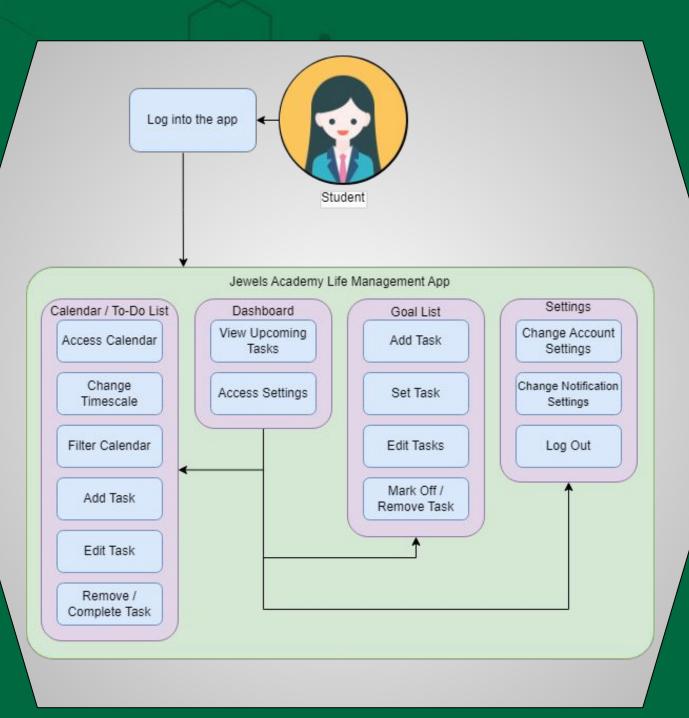


Problem Statement

• Students attending the Jewels Academy organization need a tool that can be used to manage their busy lives.

Functional Requirements

- User should be able to:
 - Access the interconnected
 Dashboard, Tasks List, Goals, and
 Settings pages
 - Add/Set/Remove tasks and goals
 - View Calendar
 - Calendar and Tasks List timescale
 - Add/Set/Complete/Remove Goals
- Login/Logout/Register
- Adjust account & notification settings



Technical Details

Details about our functional module Frontend:

- React Native for the framework
- Javascript, Typescript, and JSX for languages
- Formik library for forms for the To-do, Login, Register, and Goals pages
- Expo library for real time testing

Backend:

- Python as base language
- Marshmallow for JSON serialization and deserialization
- Flask for request routing and HTTP endpoints
- Flask-SQLAlchemy for database management

Non-Functional Requirements

- Account creation updates/changes
- Support the insertion of take and organization
- Visually appealing in the Jewels Academy color scheme

Operating Environment

- An App running on React
- Google Cloud backend using CloudSQL and Google App Engine

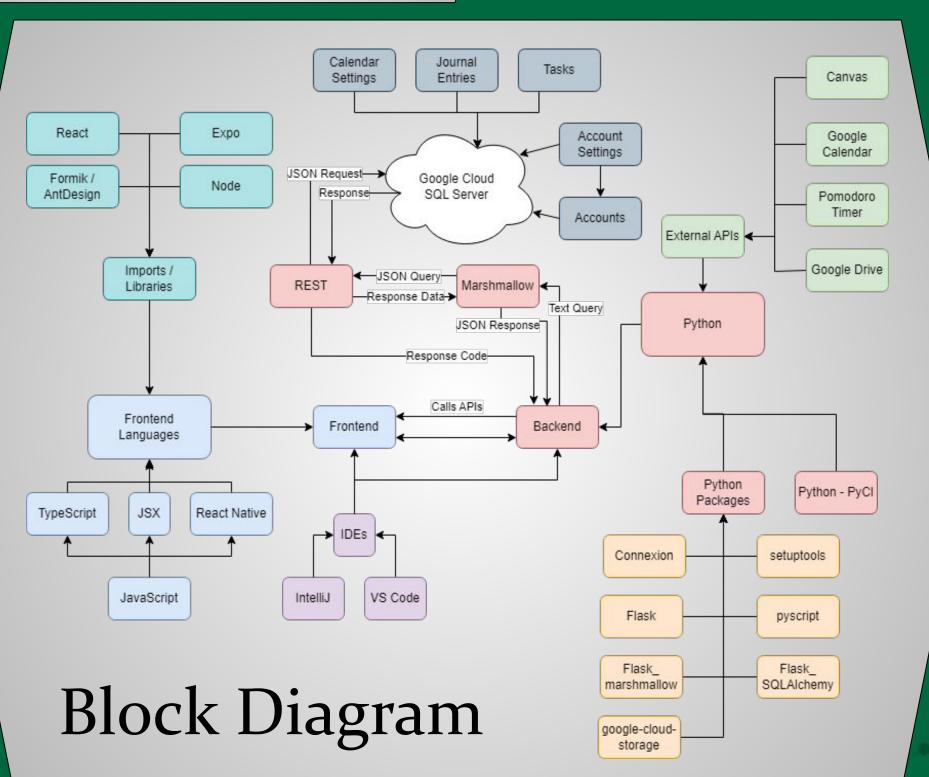
Intended Users & Uses

Students of Jewels
 Academy

Testing

Backend: Utilized Postman

• Frontend: Utilized Expo



Engineering Standards

- IEEE 29119-3-2021 Standards of Software Testing
- IEEE 12207-1996 Standards for Developing and Managing Software
- IEEE 7002-2022 Standards of Privacy
 Oriented Considerations in Software
 Development

Security Concerns

- User email and password storage:
- Mitigated by utilizing Google Cloud's included encryption at rest and encryption in transit.
- User data available to the frontend:
- Mitigated by using a REST system with user related responses exclusively acting based on a unique identifier, and HTTP response codes.