

# PlanningJam

Iteration 1

# Team

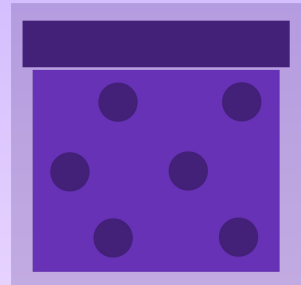
**David Metraux - Team Leader**

**Haolin Yang - Design and Implementation Leader**

**Donjay Barit - Configuration Leader**

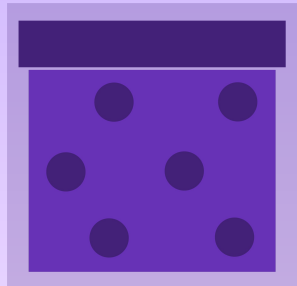
**Ashley Sachdeva - Requirements Leader**

**Jason Lee - QA Leader**

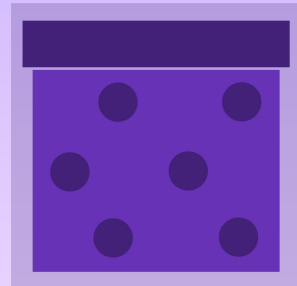


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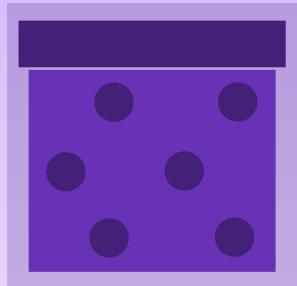


# Iteration 1 Summary



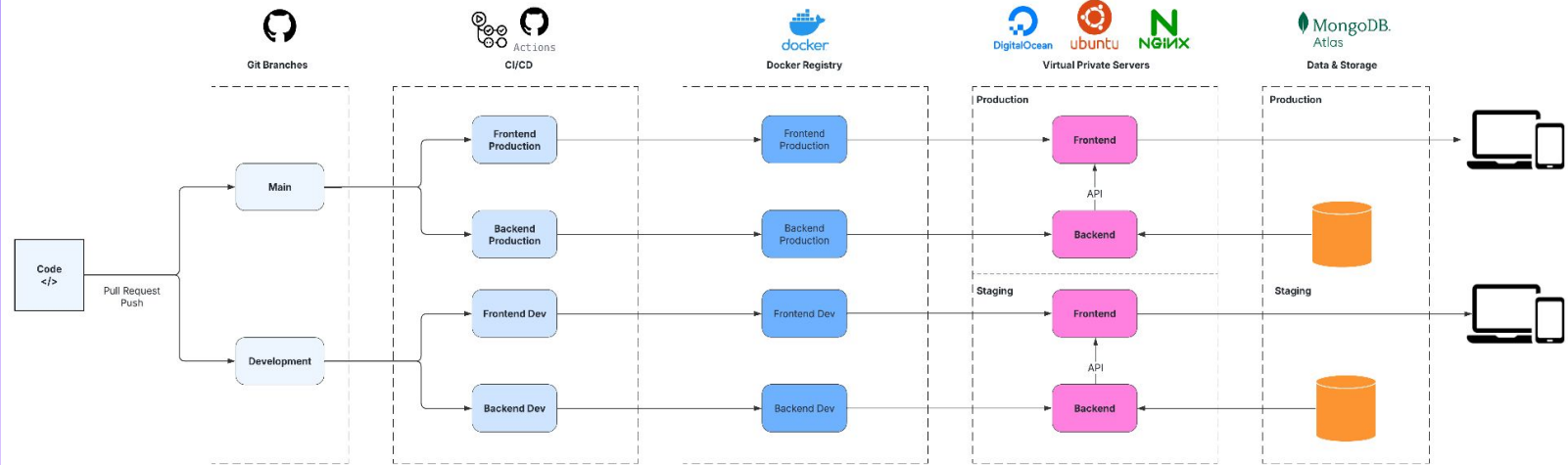
# Iteration 1 Summary

- Backend: We implemented registration and login functionalities using JWT.
- Frontend: Implemented registration, login and a simple main page.
- Set up CI/CD Pipeline
- Set up Github Security



# CI/CD Pipeline

## Planning Jam CI/CD Pipeline



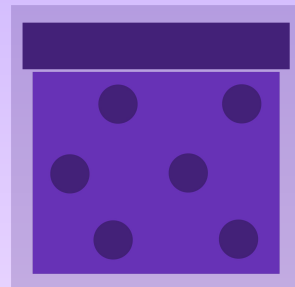
# Moving from Render

We decided to move from Render to Digital Ocean due to constraints that the Render plan provides.

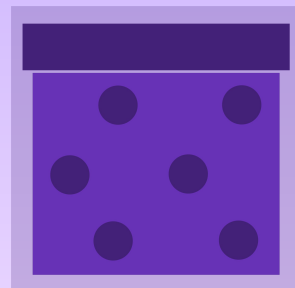
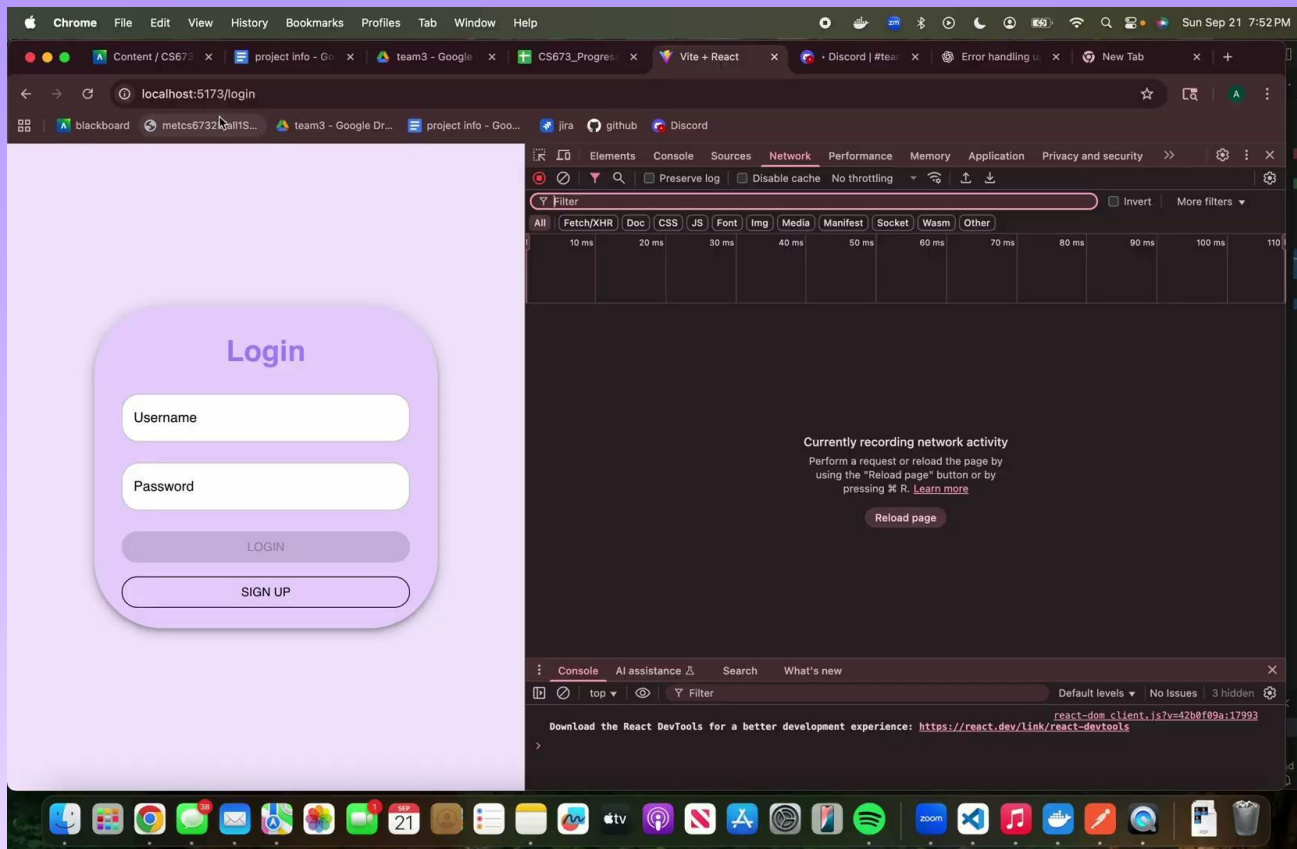
- **Why?**

As our application and database grow with each iteration, Render no longer provides the sufficient hardware environment to run the entire application.

Hence, we are moving the hosting of the application to Digital Ocean instead.

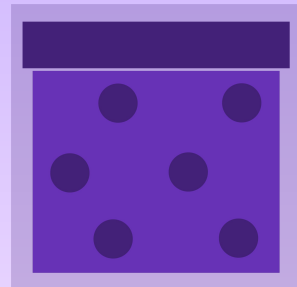


# Demo





# SDD Document

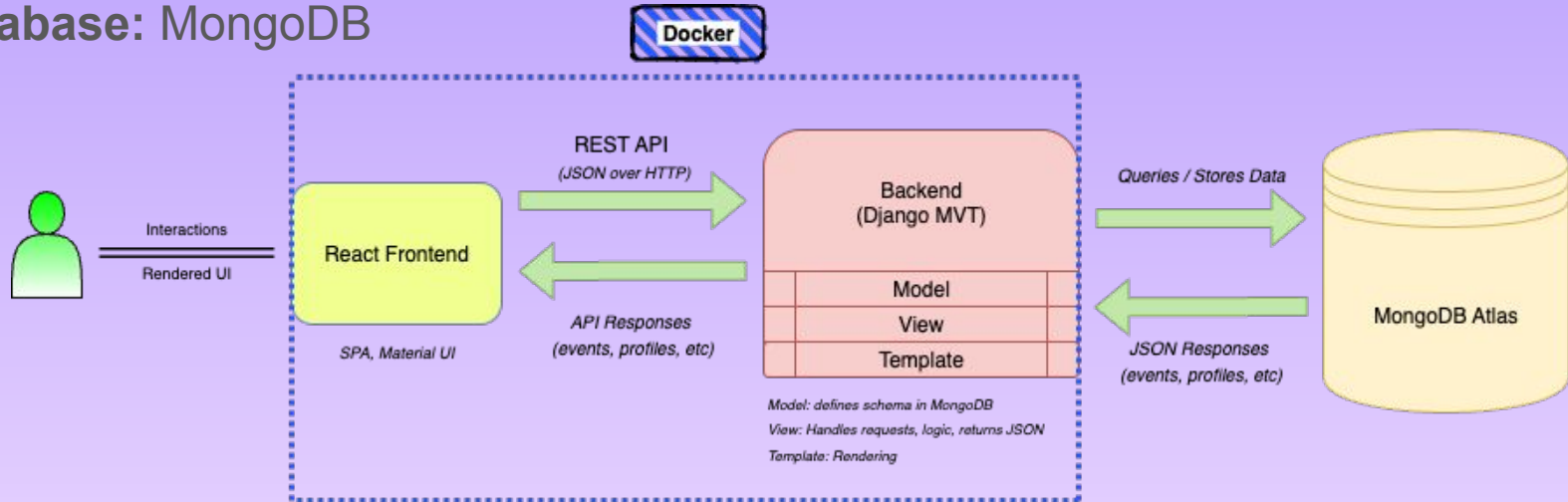


# Software Architecture

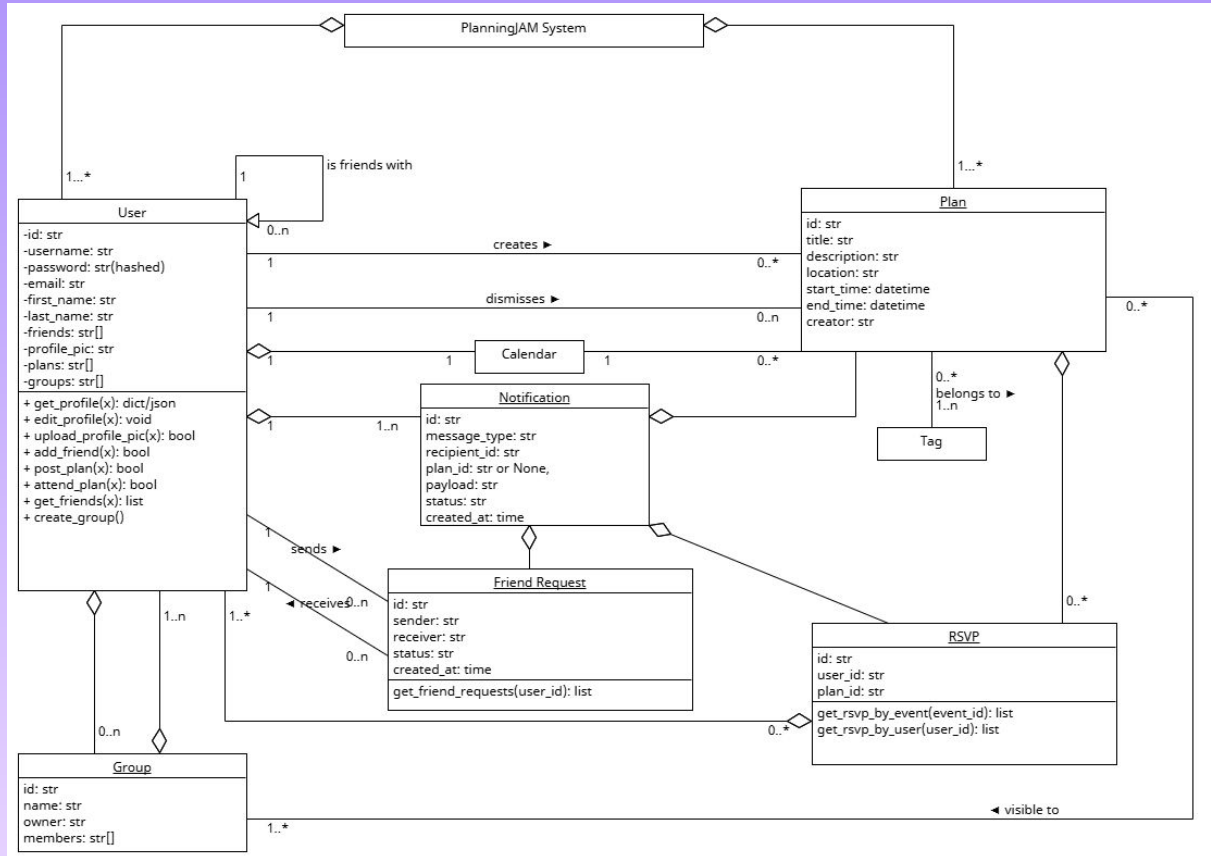
**Front End:** React/Vite

**Back End:** Django/Python


**Database:** MongoDB



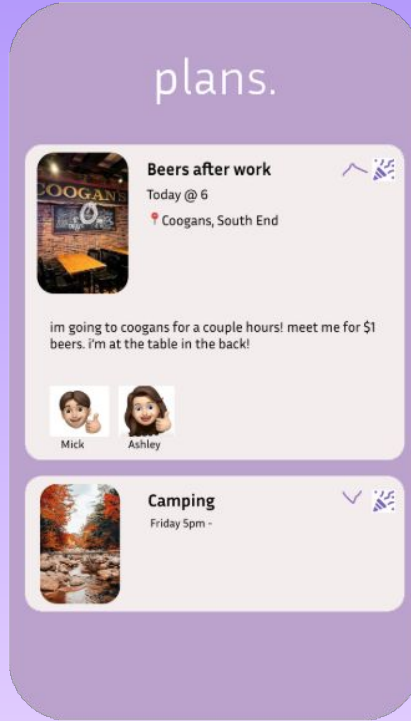
# Class Diagram



# UI Design



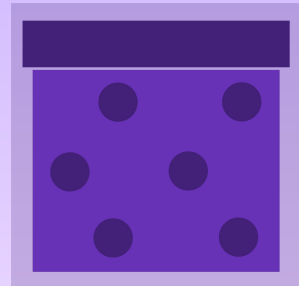
A login screen with a light purple background. In the center is a rounded rectangle containing the title "Login" in purple. Below the title are two white input fields: the first is labeled "Email" and contains the text "asach"; the second is labeled "Password". Below the input fields are two buttons: a grey "LOGIN" button and a white "SIGN UP" button with a purple border.



A "plans." screen with a light purple background. The title "plans." is at the top. Below it are two plan cards. The first card, titled "Beers after work", features a photo of a bar, the text "Today @ 6" and "Coogans, South End", and a message: "im going to coogans for a couple hours! meet me for \$1 beers. i'm at the table in the back!". It includes avatars for "Mick" and "Ashley". The second card, titled "Camping", features a photo of a campsite and the text "Friday 5pm -". Both cards have a small icon in the top right corner.

A balance of simplicity with functionality

Approachable and effective

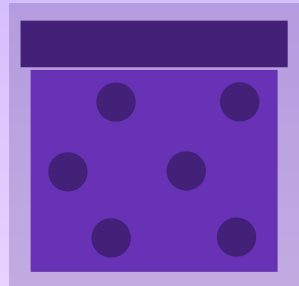


# Database Design

## MongoDB

### Database Collections

- Users
- Plans
- Groups



# Security Design

**Code Security** - vulnerability and exposure scanning

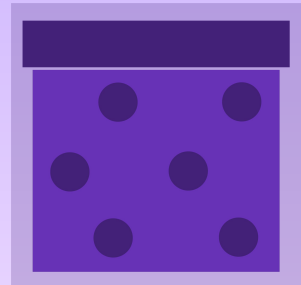
**Application Security** - JWT session tokens, HTTPS, TLS, SSL

**Deployment Security** - Securing secret keys and environment variables

**Infrastructure Security** - SSH key authentications, backups, security softwares

**DNS Security** - Proxied IPs, Strict SSL/TLS, DDoS defense

**Database Security** - Encrypted data, TLS, Whitelist IPs



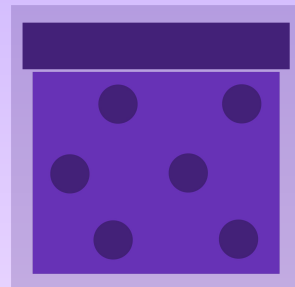
# Design Patterns

## Frontend

- Builder Pattern
- Observer Pattern
- Container/Presentational Pattern

## Backend

- Factory Pattern
- Model-View-Template Pattern
- Repository Pattern (with MongoDB)



# Rest API

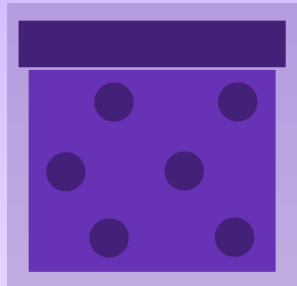
**Authentications with JWT** - user registration and logins, get logged in user

**Users and Friends** - update profile, send/accept friend requests, get list of friends, get another user details

**Plans** - create/edit/delete plans, get plan details

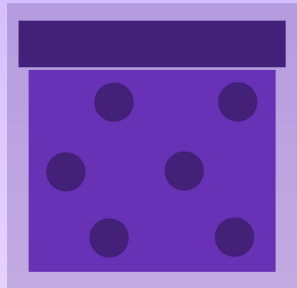
**RSVP** - rsvp to plan, see who's also rsvp'd

**Notifications** - retrieve plans notifications





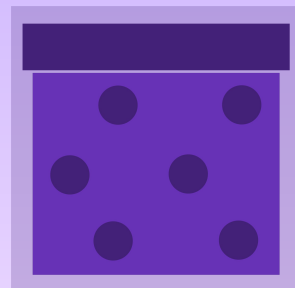
# Future Plans



# Moving Forward

For the next iteration, we plan to:

- **Backend:** Add more core functionality such as friends and plan.
- **Frontend:** Add corresponding web pages.
- Securing the infrastructure
- Optimize our database by removing some of the auto-generated Django admin collections if deemed necessary.



**Thanks for Watching**

