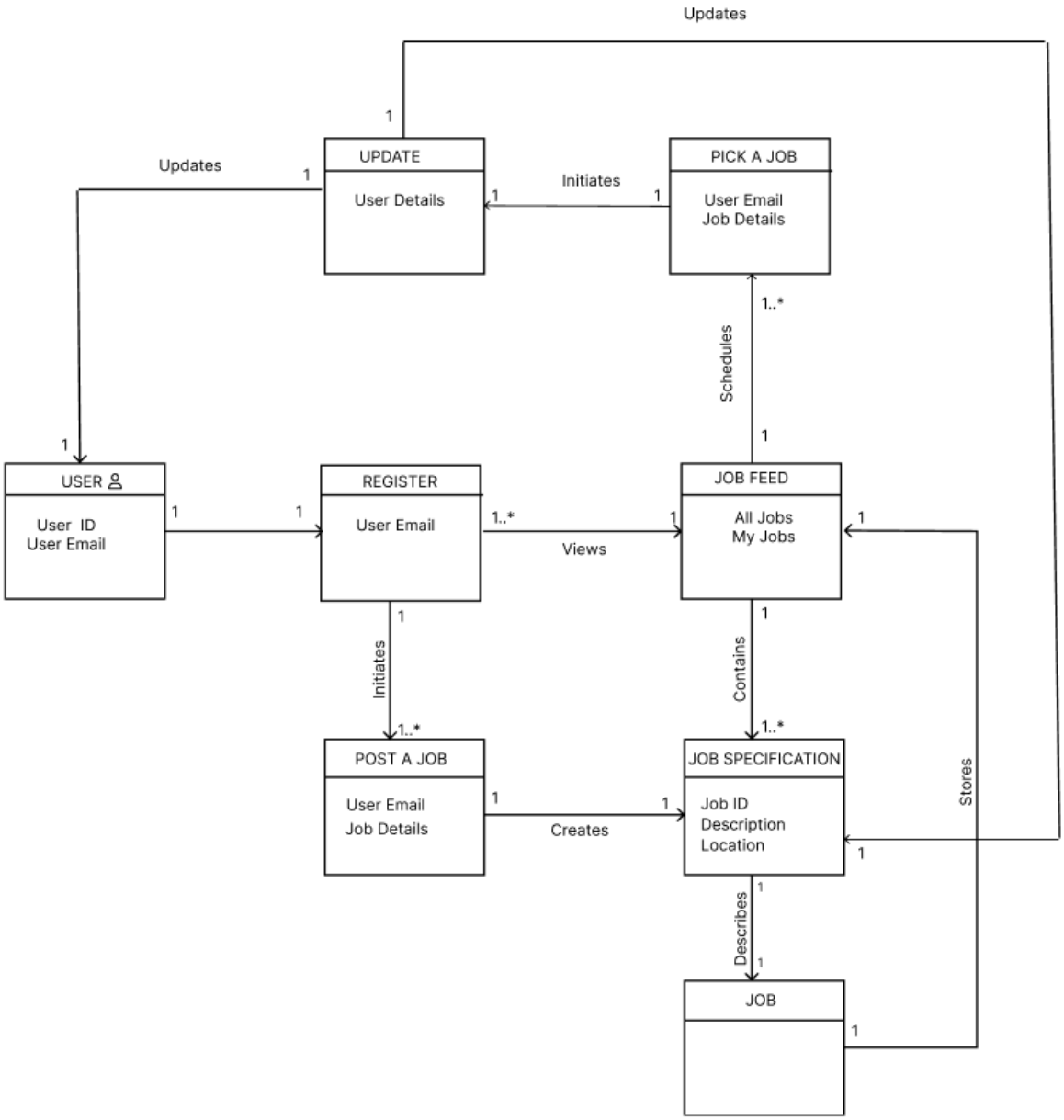
Deliverable Sprint 2

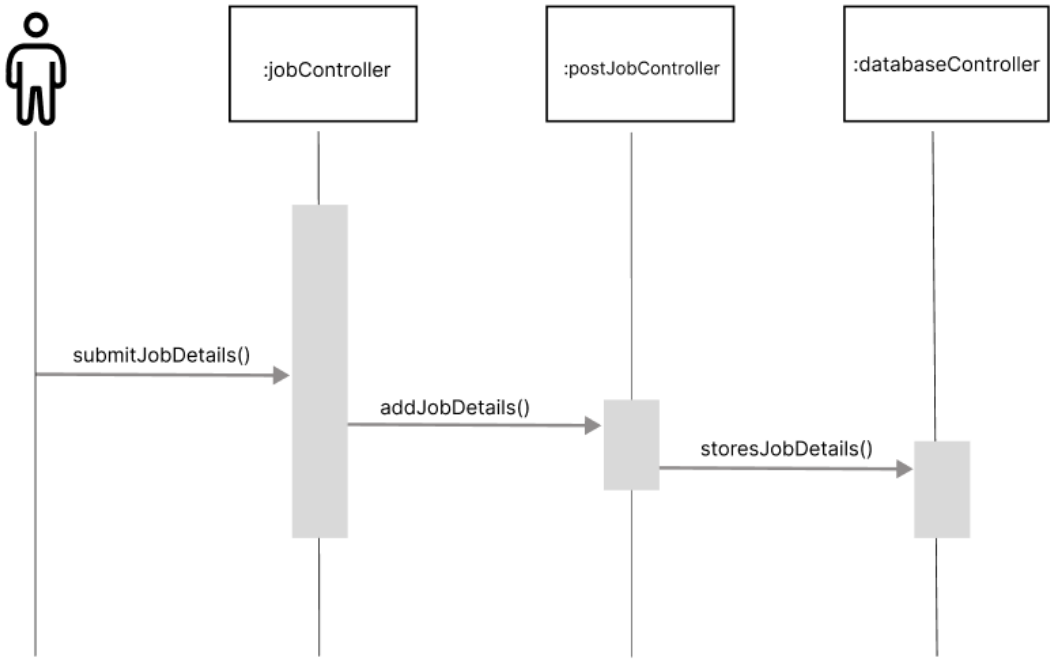
Design Diagrams

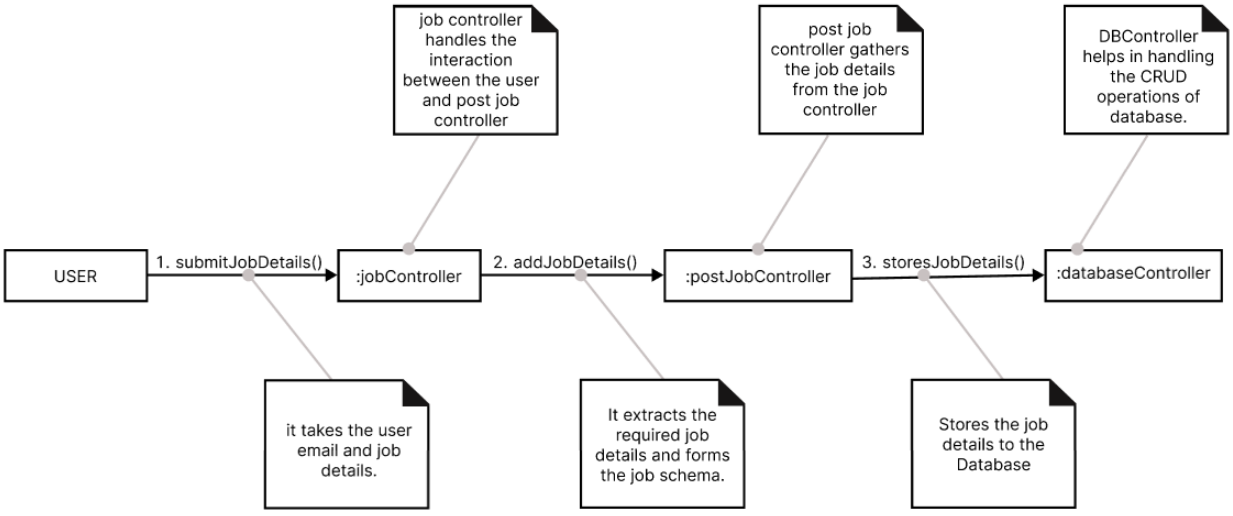
Domain Model:



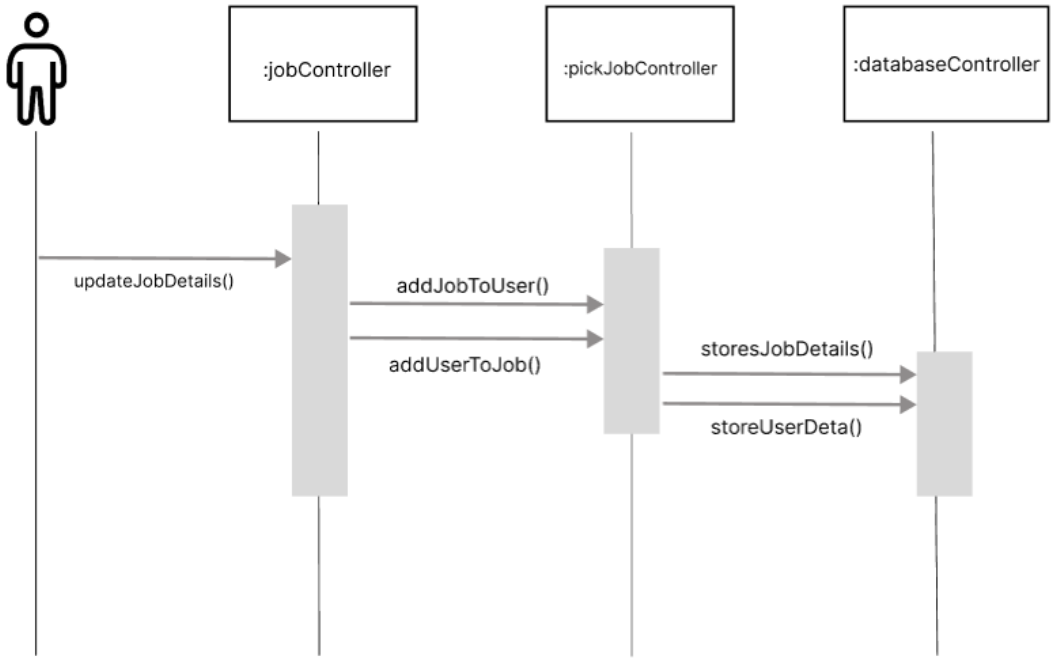
Interaction Diagrams:

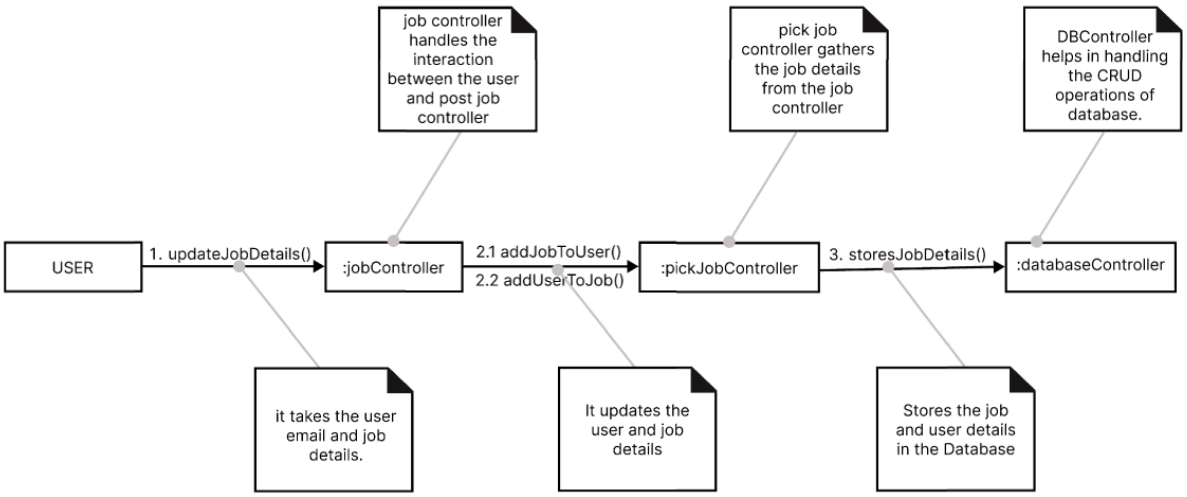
Usecase-1 : Post a Job



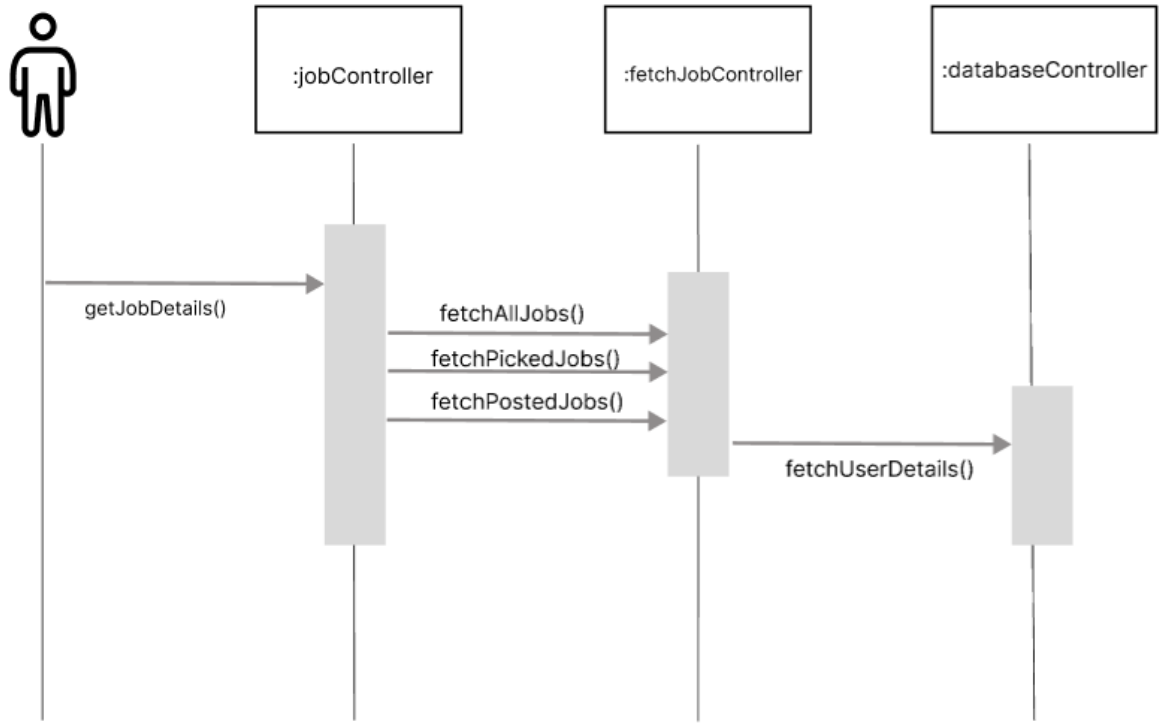


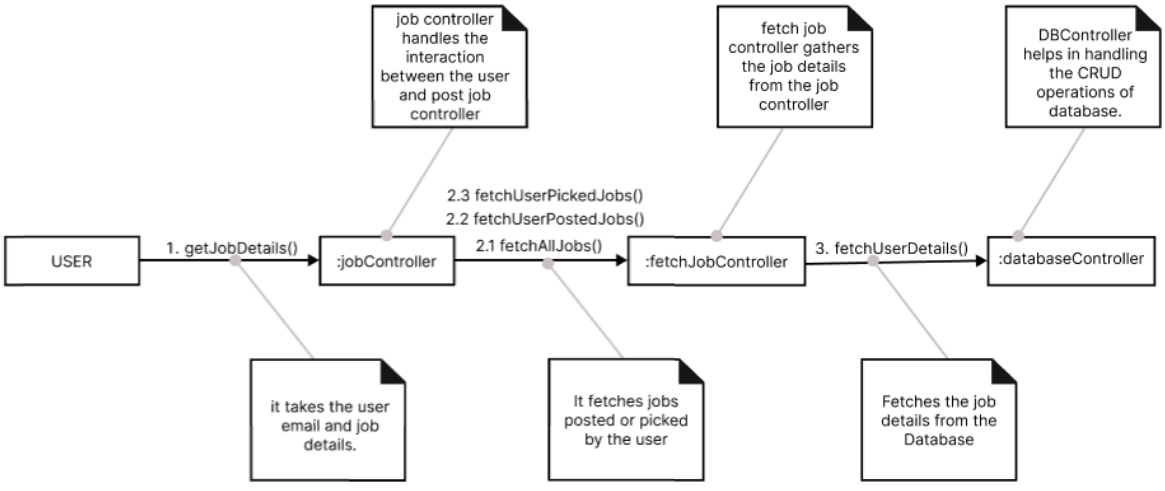
Usecase-2 : Pick a Job



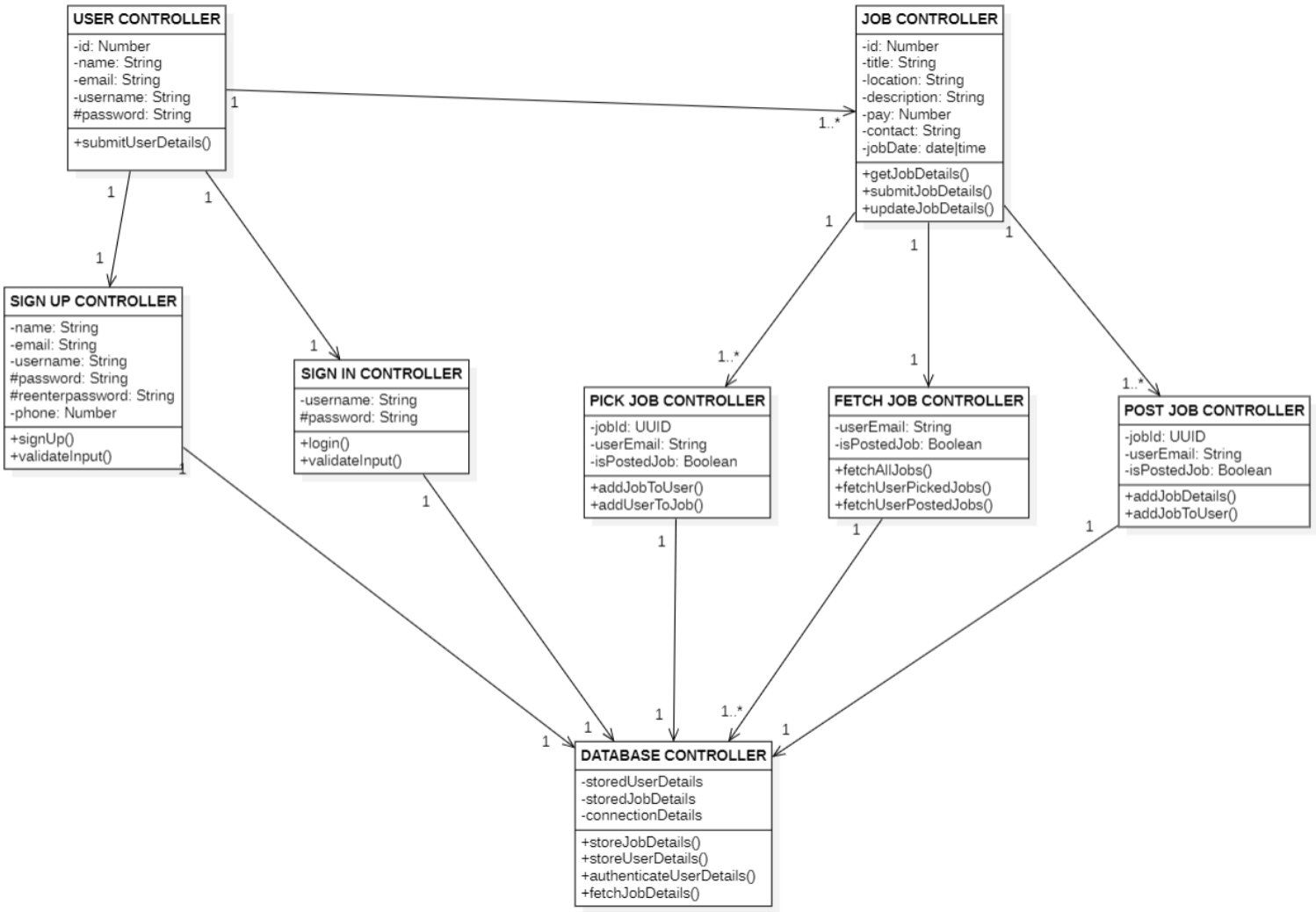


Usecase-3 : Fetch Jobs



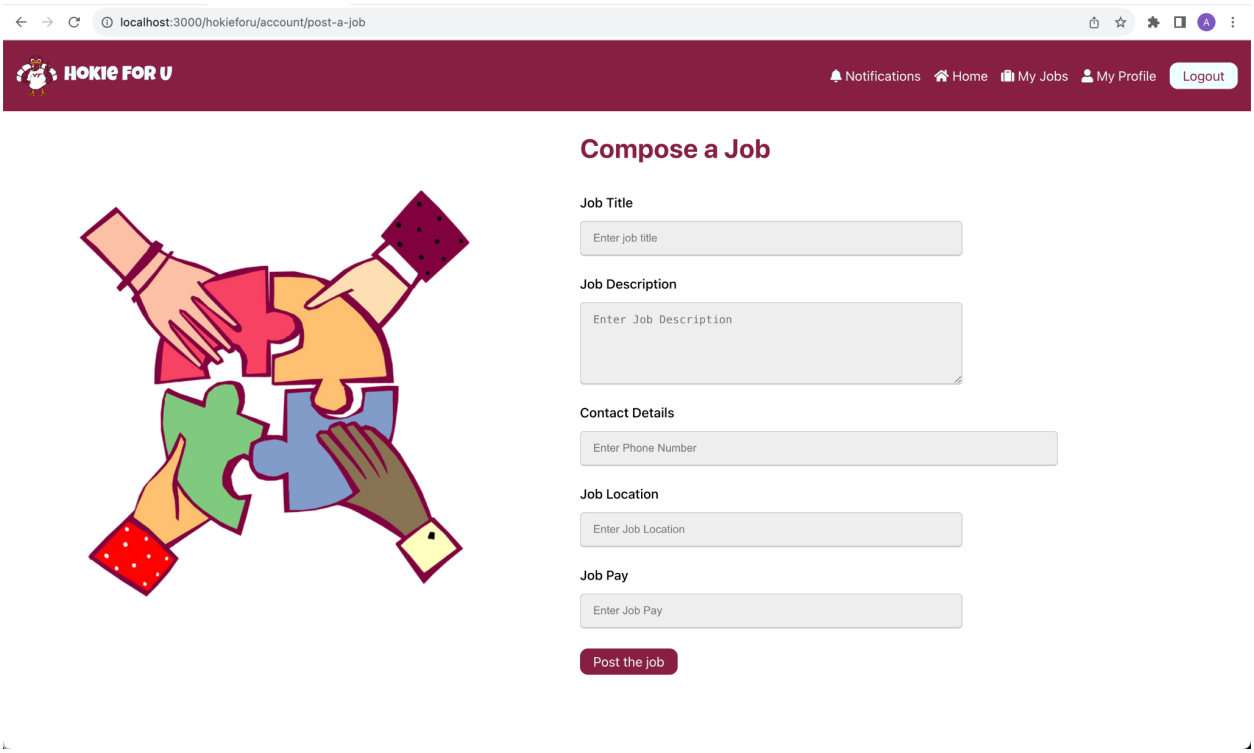


Design Class Diagram:



Demo Working Product System

Post a Job Page:

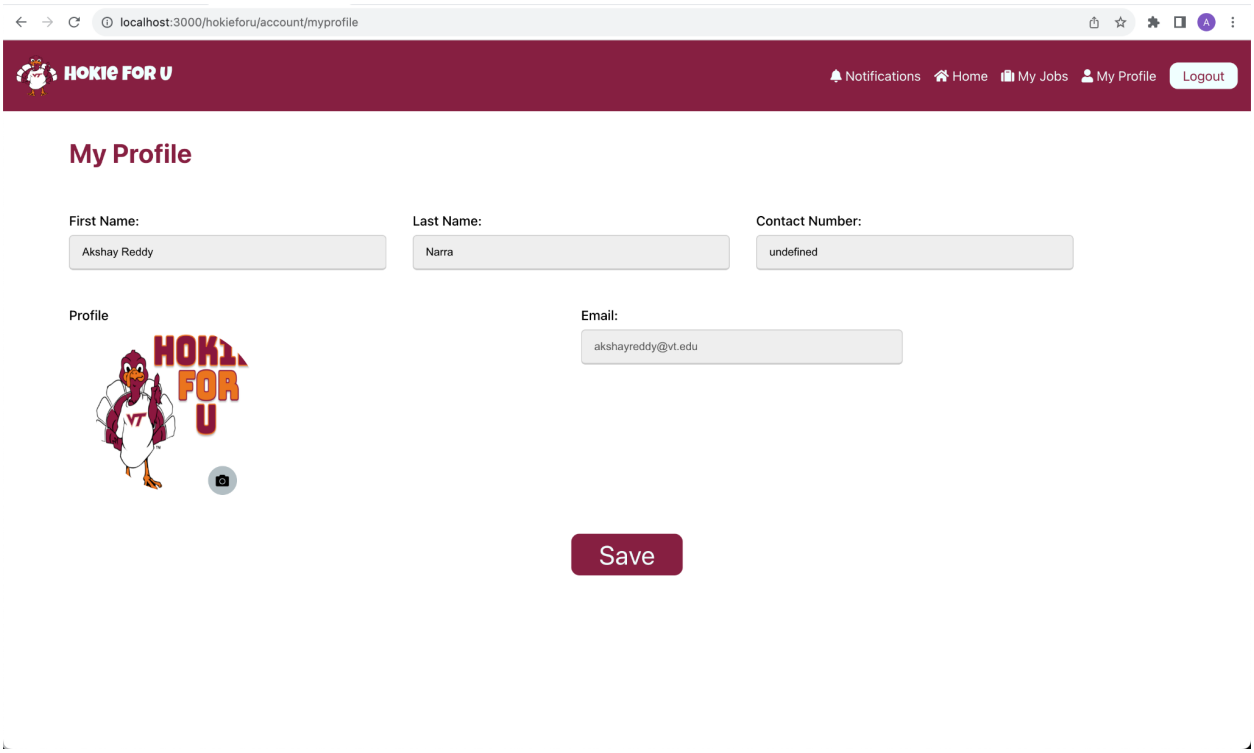


Our application features a "Post a Job" page with a user-friendly form for job listings. This form includes fields for title, description, date, pay, and location, providing essential job details. When submitted, the data is securely stored in our database, streamlining the job posting process and making it easier for both job posters and job seekers to manage listings and find suitable opportunities. This page serves as a key feature, supporting efficient data management for a seamless user experience.

Update profile page:

The "Update Profile" functionality is a critical feature within our application that allows users to modify their personal information. This feature enhances the user experience by enabling them to keep their profile details up to date. The "Update Profile" page comprises several fields, including First Name, Last Name, Contact Number, Email, and Profile Picture, each of which contributes to a comprehensive user profile. Users can edit their First Name, Last Name, and Contact Number to ensure that their personal information remains accurate. To initiate updates, users are presented with input fields for each of these attributes. A well-designed form structure guides users through the process, with

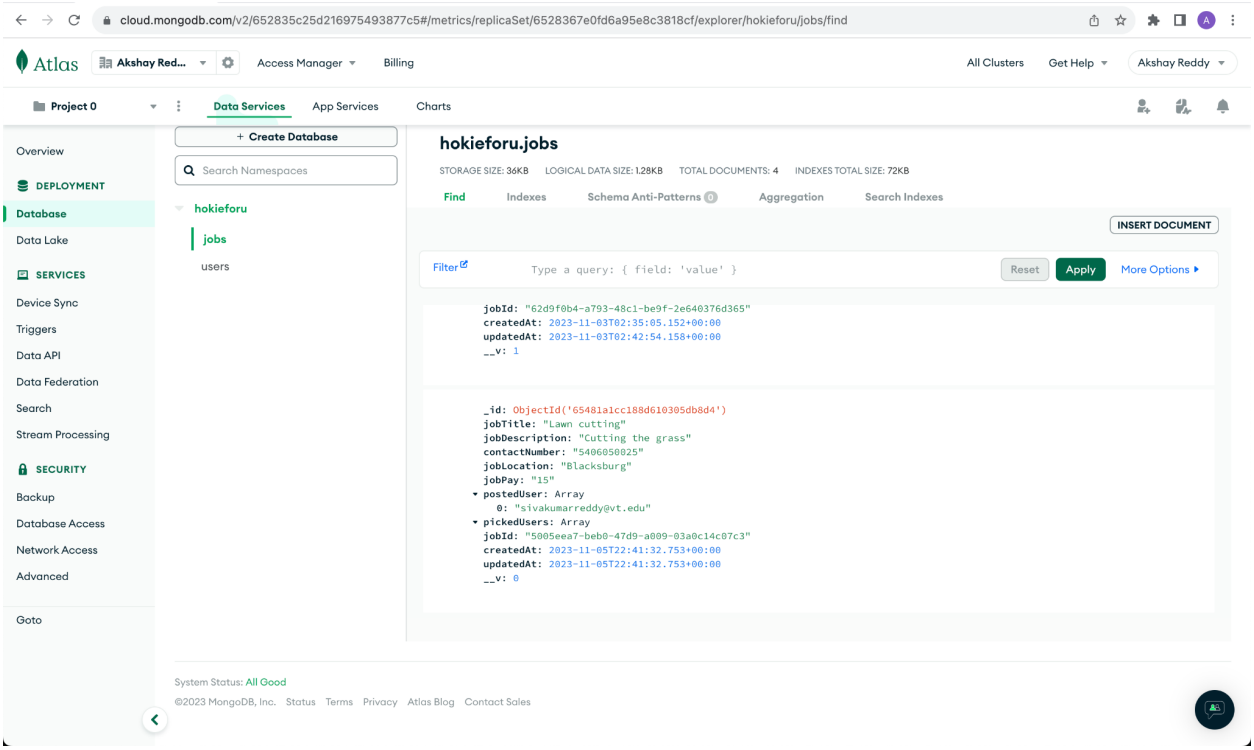
error handling and validation to guarantee the integrity of the data. The "Update Profile" functionality allows users to view their current email address but does not permit them to modify it. This ensures the security and consistency of user accounts. In the case where email address changes are necessary, users can utilize an alternative method, such as contacting support or customer service. Users have the option to upload or update their profile picture. This image provides a visual representation of the user and personalizes their profile. The file upload feature supports various image formats, ensuring flexibility and ease of use.



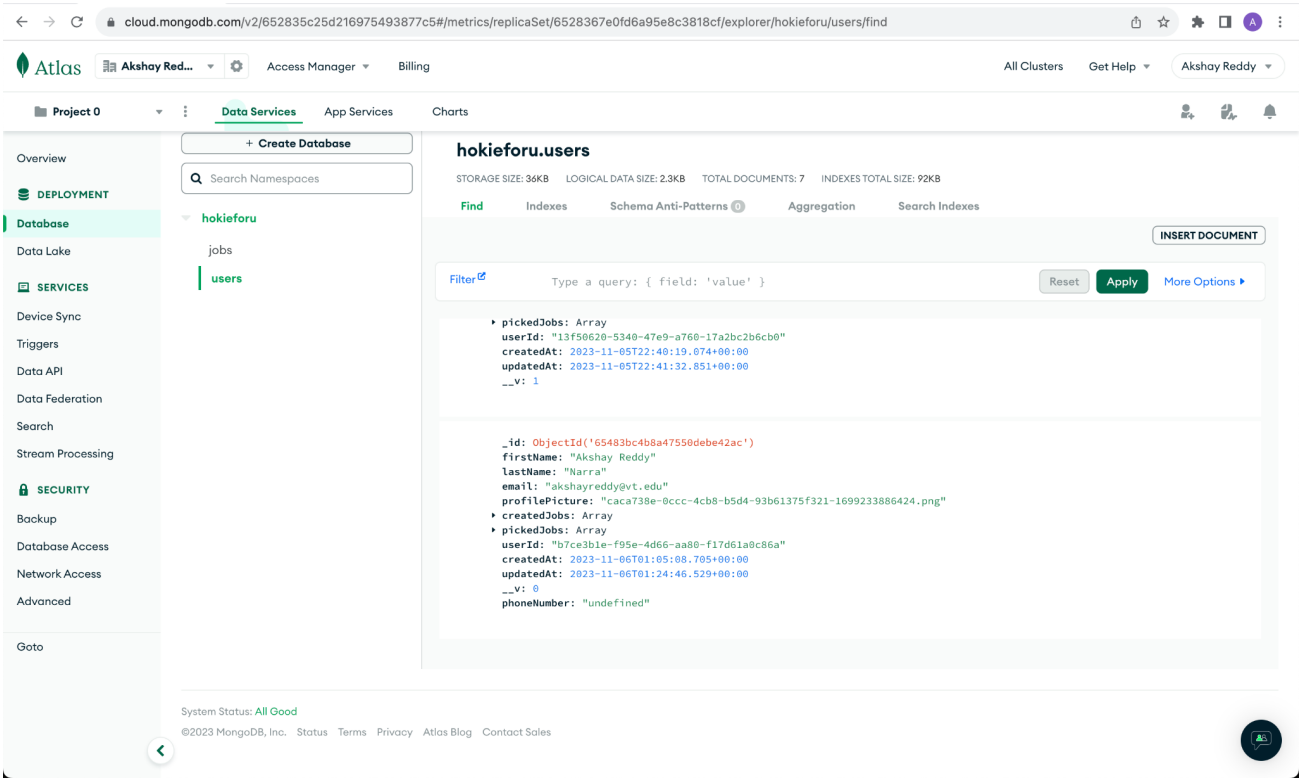
Databases:

Jobs Collection:

The below collection stores information about job postings created by users. It includes details about the job title, job location, job description, job pay, and the user who posted the job. This collection establishes a many-to-many relationship between users and job postings. It allows users to track jobs they've posted and jobs they've applied for. This database structure allows you to store and manage job postings, as well as track the relationship between users and the jobs they have posted or applied for.



User Collection:



The above collection stores information about registered users of your application. It includes details about the user's name, email, profile picture, created jobs, picked jobs, phone number, and other related attributes.This database structure allows you to store and manage user profiles, including their personal information, interactions with job postings, and contact details.

Scrum

Sprint 2 Backlog

User Story-1:

As a user, I want the ability to post service jobs and store their details in the system. (Backend Development)

Task	*Hours*
BackEnd - Post a Job	7h
Testing - Post a Job	2h
Front End and Back End connection - Dev	4h

User Story-2:

As a product manager, I need a data model for service job postings, covering attributes like title, description, category, and location.

Task	*Hours*
Create data model	4h

User Story-3:

As a user, I want to have a profile page where I can view and manage my personal information.

Task	*Hours*
FrontEnd - Dev	3h
Unit Testing	1h
BackEnd - Dev	3h
Testing	1h

User Story-4:

As a user, I want to browse and view a list of available service jobs.

Task	*Hours*
Create backend function to retrieve all jobs	2h
Test - BackEnd	1h

Sprint 2 Burndown chart

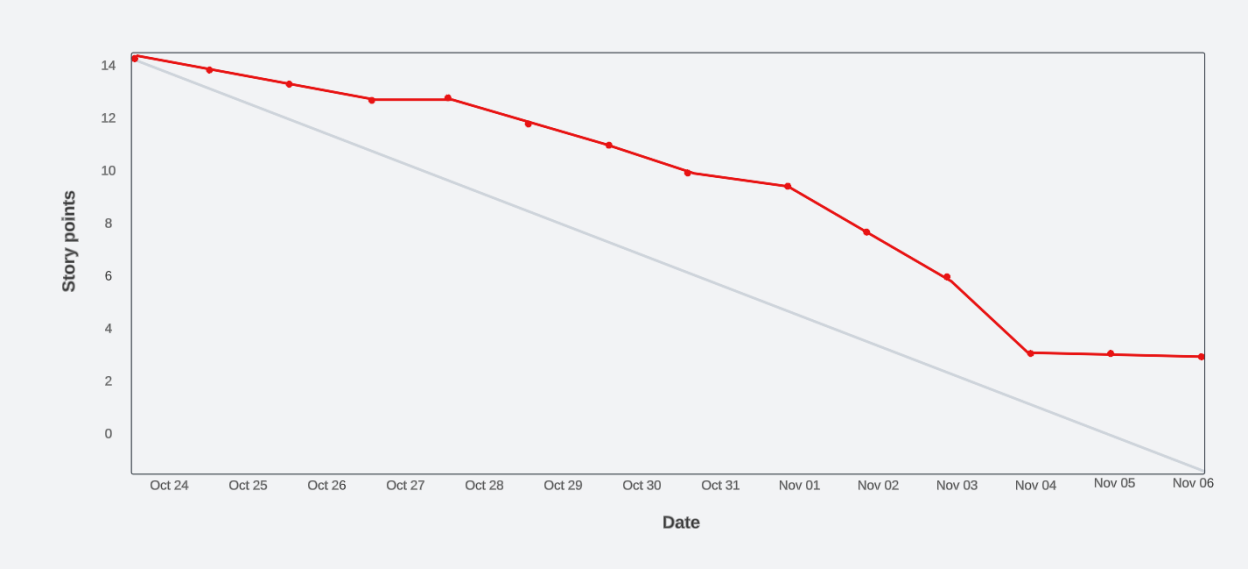


Fig 1: Sprint burndown chart(Story points vs Sprint dates)

Sprint Retrospective

Accomplishments:

- The user profile page design and development were successfully completed.
- Backend development for job posting and job picking functionalities was effectively implemented.
- The attributes and schema for job data in the database were designed.
- Backend development for retrieving user-specific job data from the database was accomplished.

Pending Work:

- Completion of frontend development for the "Pick a Job" functionality.
- Frontend development for the Job Feed feature.

What Went Well:

- Significant progress was made in backend development, focusing on building the core functionality of the web application.
- Improved communication and tracking of work progress were achieved.

Areas of Improvement:

- There was an overemphasis on frontend work in this sprint, necessitating better planning and distribution of tasks.

Product Backlog

- We have decided to remove the user story about filtering the job feed based on preferences because of time constraints and the reduced priority of this feature.

ID	User Story	Estimation	Priority
1.	As a user, I want to register and login securely using authentication methods.	8	1
2.	As a user, I want to be able to access and use a web application, so I need a login and registration interface to create a new account or log in to an existing one.	3	1
3.	As a website visitor, I want to see an engaging and informative homepage so that I can quickly understand the purpose and offerings of the website.	3	2

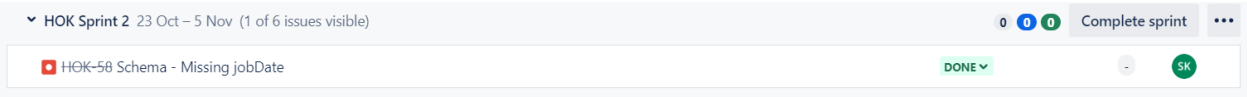
4.	As a product manager, I want a database schema for user profiles, including personal information and profile pictures.	3	3
5.	As a user, I want the ability to post service jobs and store their details in the system.	8	4
6.	As a user, I want to have a profile page where I can view and manage my personal information.	5	5
7.	As a product manager, I need a data model for service job postings, covering attributes like title, description, category, and location.	3	6
8.	As a user, I want to browse and view a list of available service jobs.	8	7
9.	As a user, I want to schedule service jobs, specifying date and time preferences.	13	7
10.	As a user, I want a user dashboard that provides an overview of my most recent and upcoming jobs.	8	8
11.	As a user, I want to receive notifications when a service job is booked or scheduled.	5	9

Issue tracking

We raised the below bug while testing the Sprint 2 user stories:

Issue 1 (User Story-1) : **Schema - Missing jobDate**

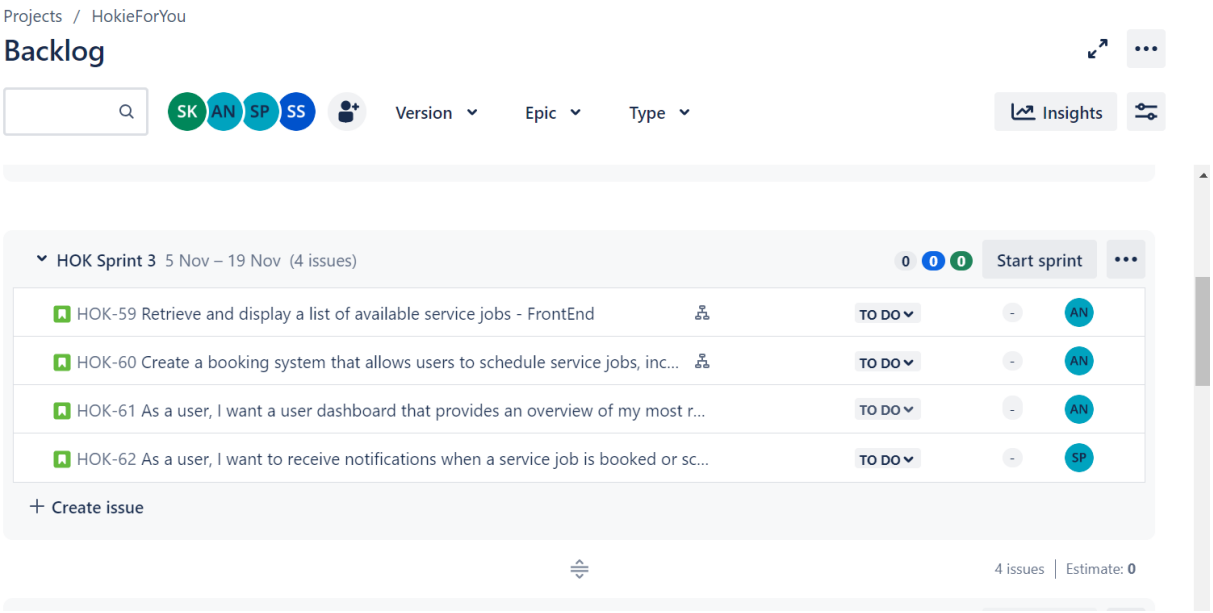
jobDate needs to be added to the data schema for scheduling



Sprint 3 Backlog

Planned User Stories:

1. As a user, I want a user dashboard that provides an overview of my most recent and upcoming jobs.
2. As a user, I want to receive notifications when a service job is booked or scheduled.

Unimplemented User Stories from Sprint 2:

1. As a user, I want to browse and view a list of available service jobs. (Frontend Development)
2. As a user, I want to schedule service jobs, specifying date and time preferences.