SSZG585
Cross Platform
Application
Development
Assignment

2023mt12202 Anshul Kumari Bansal



## **Functional Requirements**

Users can **sign up, sign in, and sign out** of the application

Users can create tasks with a **Title**, **Description**, and **Due Date** 

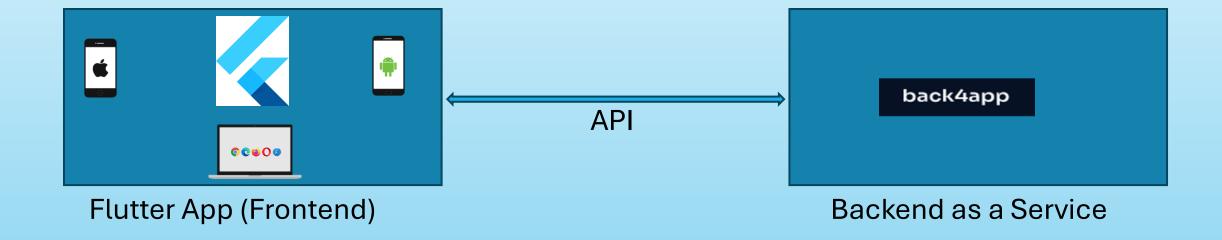
Users should be able to view all tasks

Users can mark tasks as complete or incomplete

Users can **search** task by **Title** or **Description** 

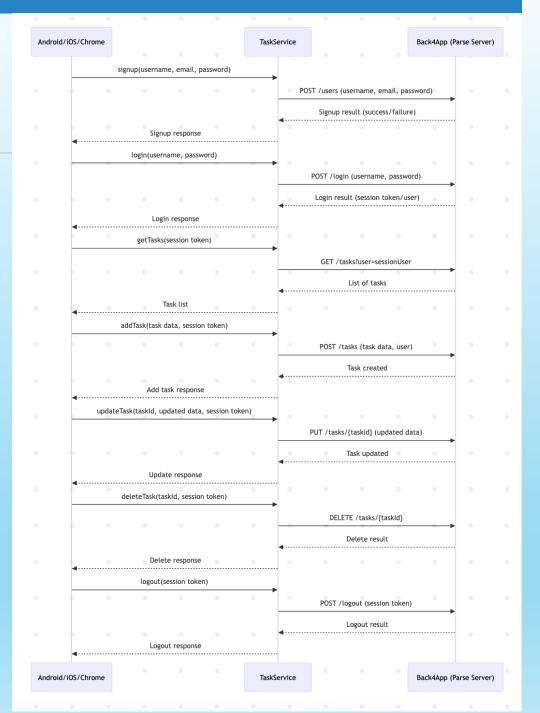
Users can sort task by due date

# High Level Design

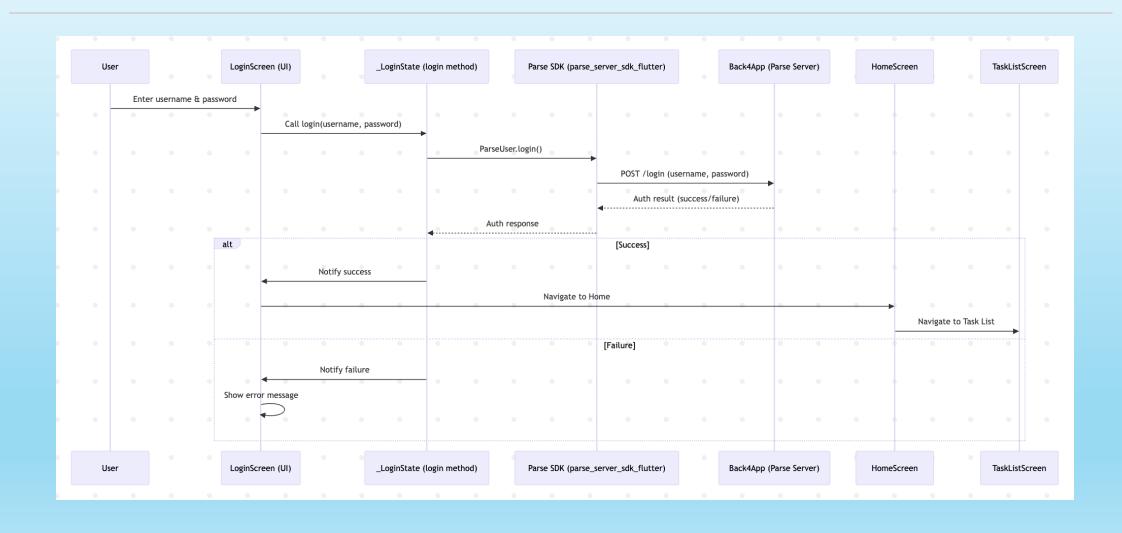


**Client Server Architecture** 

# Sequence Diagram

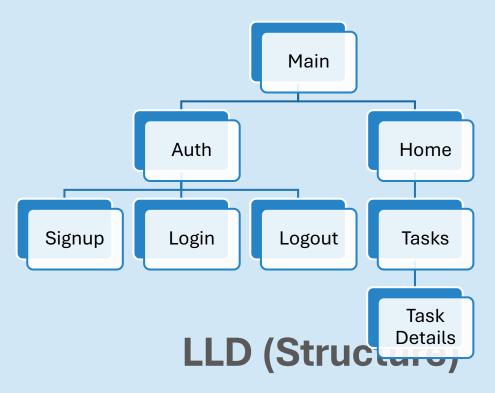


# Sequence Diagram – Authentication Flow



#### **Tools Used for Development**

- •Flutter → Frontend UI, form validation, navigation.
- •Parse SDK → Handles database interactions and authentication in Flutter.
- •Back4App → Cloud backend hosting Parse Server.
- •Dart → Flutter programming language.
- •Postman (Optional) → To test API requests before integration.



### **Tools Used**

#### Flutter Dependencies

• dependencies:

flutter:

sdk: flutter

intl: ^0.19.0

parse\_server\_sdk\_flutter: ^7.0.1

awesome\_dialog: ^3.2.0

win32: ^5.5.0

path\_provider: ^2.0.0

# The following adds the Cupertino Icons font to your

application.

# Use with the Cupertinolcons class for iOS style icons.

cupertino\_icons: ^1.0.6

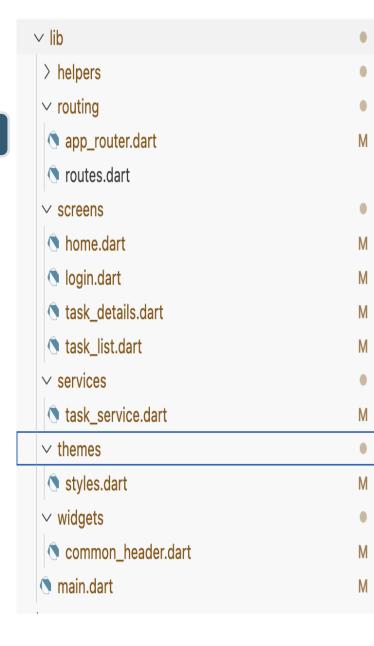
# dependency\_overrides:

# win32: 5.4.0

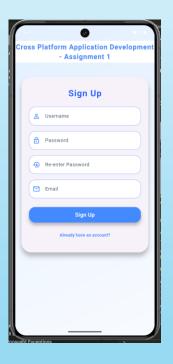
dev\_dependencies:

flutter\_test:

• sdk: flutter



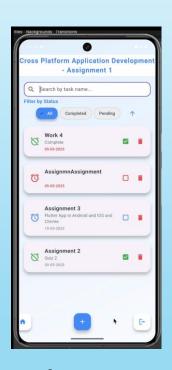
## Screenshots



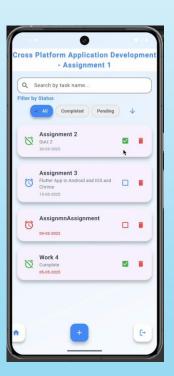
Signup



Login



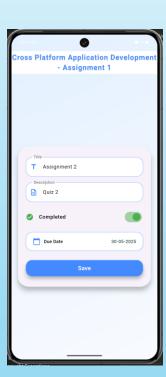
Logout



**Task List with Delete** 

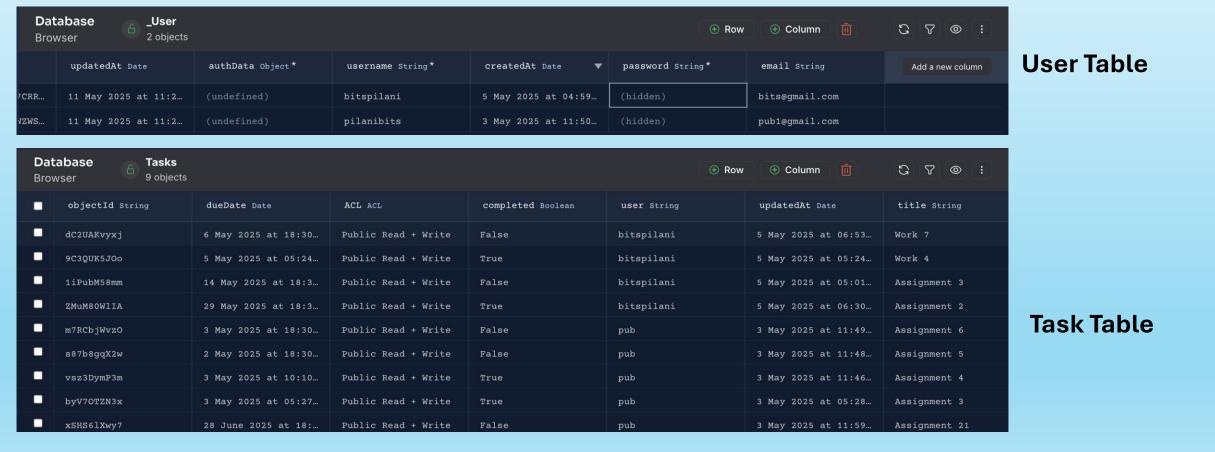


**Add Task** 

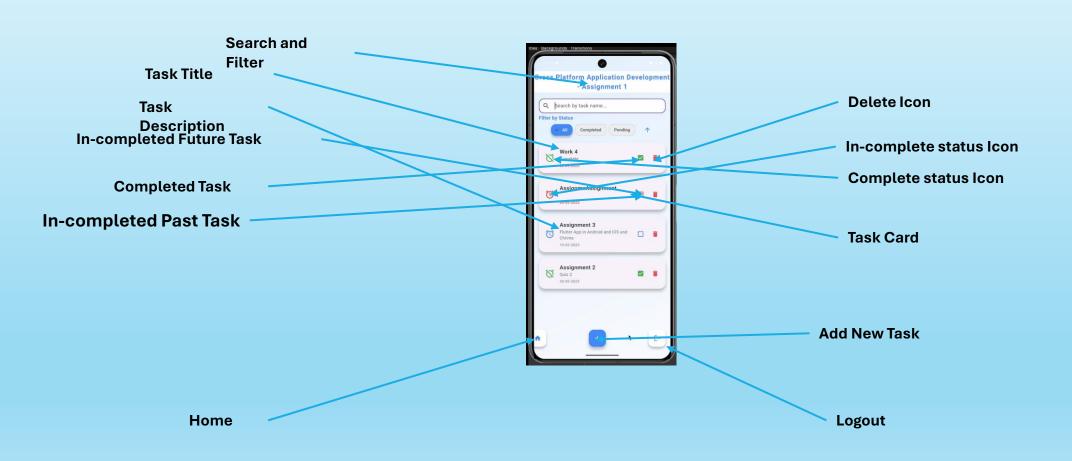


**Edit Task** 

## Database Tables Screenshots



## Task Card Details





#### **Source Code Link**

### Guidelines

**Input validations** are implemented to ensure correct user input.

**Error messages** are displayed at the bottom in **red**, while **success messages** appear in **green**.

**Login, Signup**, and **Logout** functionalities are fully implemented.

The **Awesome Notifications** library is used to provide animated feedback to users.



**Demo Youtube Link** 

## Challenges & Learnings



I developed my first crossplatform app using Flutter and Back4App.



During this project I gained knowledge in setting up and utilizing Android emulators and iOS simulators.



I focused on incorporating functional requirements that would enhance the app's utility in my daily life.



Although I faced some limitations due to time constraints, I plan to address these in future updates, including implementing background services for enhanced functionality.



Managing session tokens for authentication continuity was difficult. This was handled by storing the session token locally and using it for API requests