

Work Integrated Learning Programmer
M.Tech Software Engineering



Cross Platform Application Development

Submitted by

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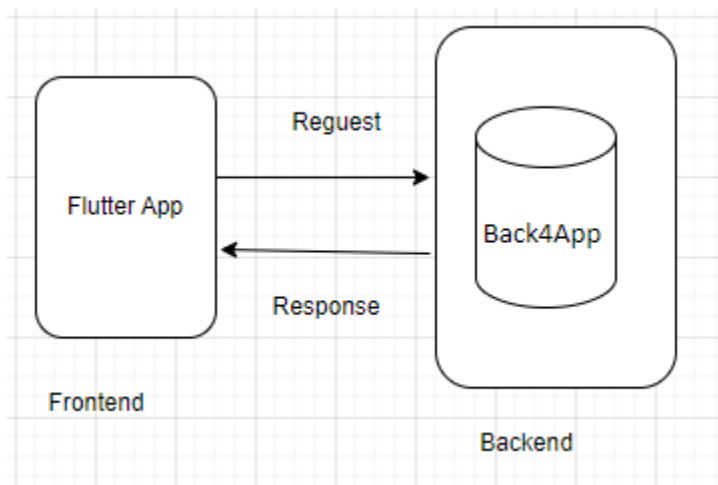
1. Quick Task Management App

QuickTask is a simplified task management app designed to help users organize their tasks efficiently. This App will enable the user to manage the task like add the task, delete the task & set the Due date. This project developed using Flutter and Back4App by building a basic task management app with essential features.

2. Key Features:

- **User Authentication:** Implement a secure user authentication system to allow users to register, log in, and manage their accounts.
- **Task Management:** Enable users to add the task, delete the task, with the task title & Set the due date of the Task.
- **Task Status:** this app enable the user to set the task status like “in-progress” or “Pending” of “complete”

3. Architecture design:



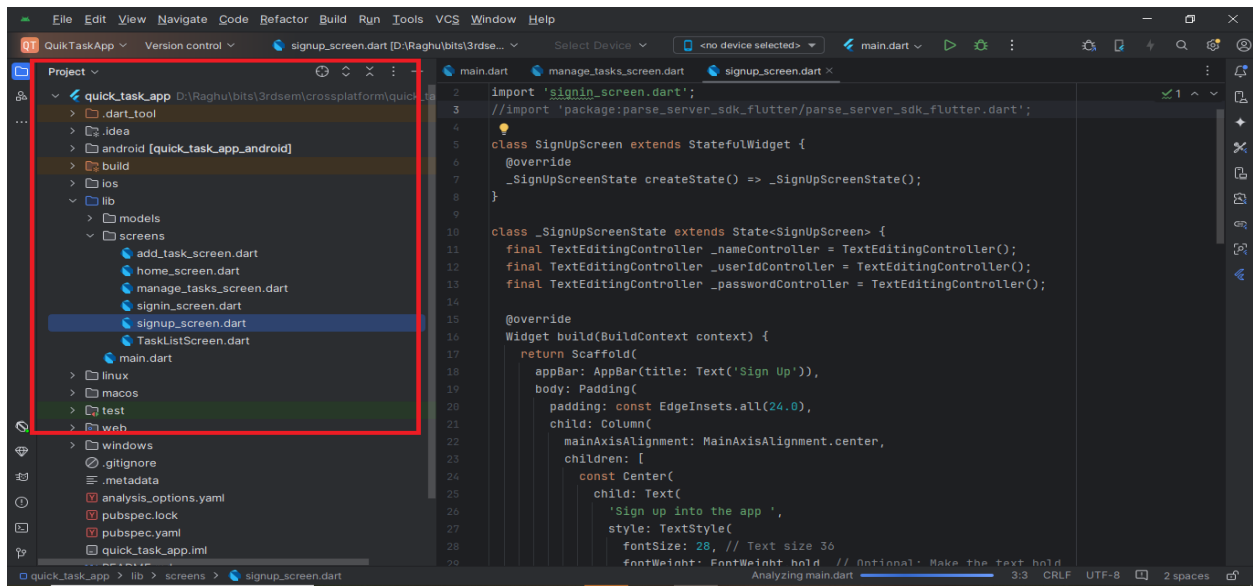
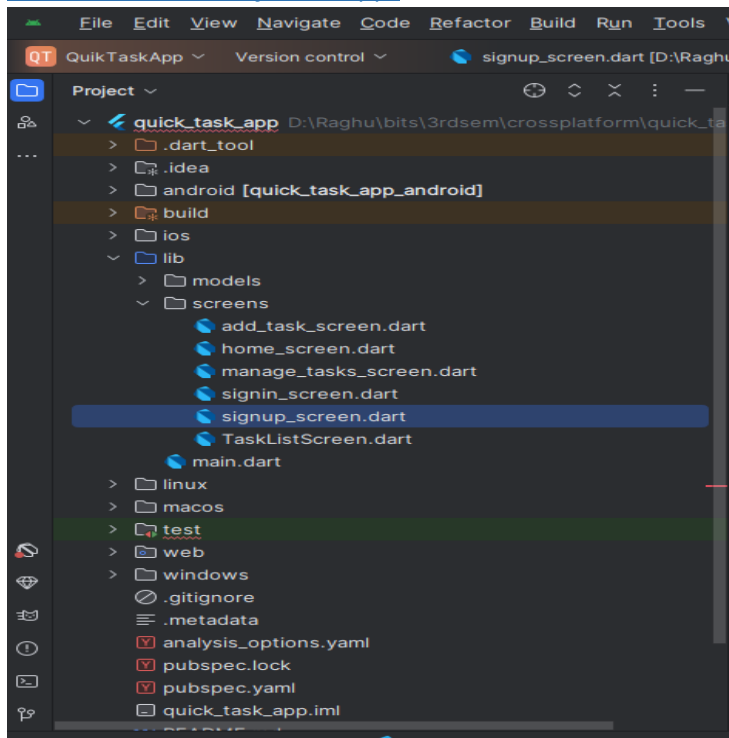
User will login to QuickTask App with credentials using username & password these credentials are stored in the back4app database

Once the user logged in successfully user can manage the Task in dashboard these are stored in back4app in table.

3.1 Application video explanation:

YouTube URL: <https://www.youtube.com/watch?v=CB26ER6uJJQ>

4. Code structure in flutter app.



4.1. GitHub code repository.

QuickTask source code:

https://github.com/raghunathreddy/flutter_QuickTask_App/tree/main/quick_task_app

5. Back4app

dashboard.back4app.com/apps

AI Agent My Apps Dashboard Docs Support Hello, raghunathec NEW APP

Project implementation review
te your project with tailored expertise and insider knowledge. Limited availability - [book now](#).

My Apps

quicktask
Free Plan
10 Req/s
UPGRADE

DASHBOARD

APP STATUS

PLAN USAGE

6. Back4app Tables :-

User & Task table

quicktask

quicktask

Database

Browser + Add Class

_Role	0
_Session	1
_User	1
B4aVehicle	1
Tasks	6

Index Manager

6.1 Back4app Task Table :-

backend.back4app.com/apps/4dab7075-5dfe-47e0-9f40-a3f363f52ff6/browser/Tasks

back4app My Apps Dashboard Docs Support AI Agent Hello, raghunathc New app

Database Browser Tasks 6 objects

	taskId Number	taskTitle String	taskStatus String	taskDueDate String	
+ Write	2	Fix Bug in Login Pa...	Pending	2024-12-05T00:00:00...	
+ Write	6	Set up CI/CD Pipeli...	Completed	2024-01-01T00:00:00...	
+ Write	4	Refactor Legacy Cod...	Pending	2024-02-10T00:00:00...	
+ Write	3	Write Unit Tests fo...	In Progress	2024-12-10T00:00:00...	
+ Write	1	Implement User Auth...	Completed	2024-11-30T00:00:00...	
+ Write	5	Code Review for Fea...	In Progress	2024-11-11T00:00:00...	

Database Browser Add Class

- _Role 0
- _Session 1
- _User 1
- B4aVehicle 1
- Tasks 6

Index Manager

Uses table

backend.back4app.com/apps/4dab7075-5dfe-47e0-9f40-a3f363f52ff6/browser/_User

back4app My Apps Dashboard Docs Support AI Agent Hello, raghunathc New app

Database Browser _User 1 object

authData Object*	username String*	createdAt Date	password String*	email String	
undefined)	Raghu	23 Nov 2024 at 18:0...	(hidden)	raghu@gmail.com	

Database Browser Add Class

- _Role 0

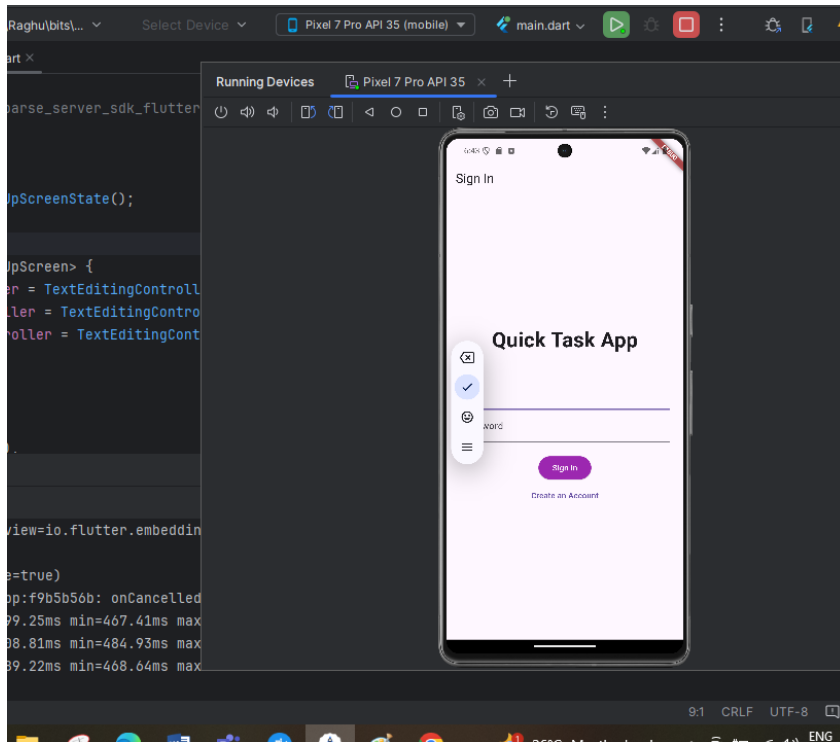
Back4app

<https://backend.back4app.com/apps/4dab7075-5dfe-47e0-9f40-a3f363f52ff6/browser/Tasks>

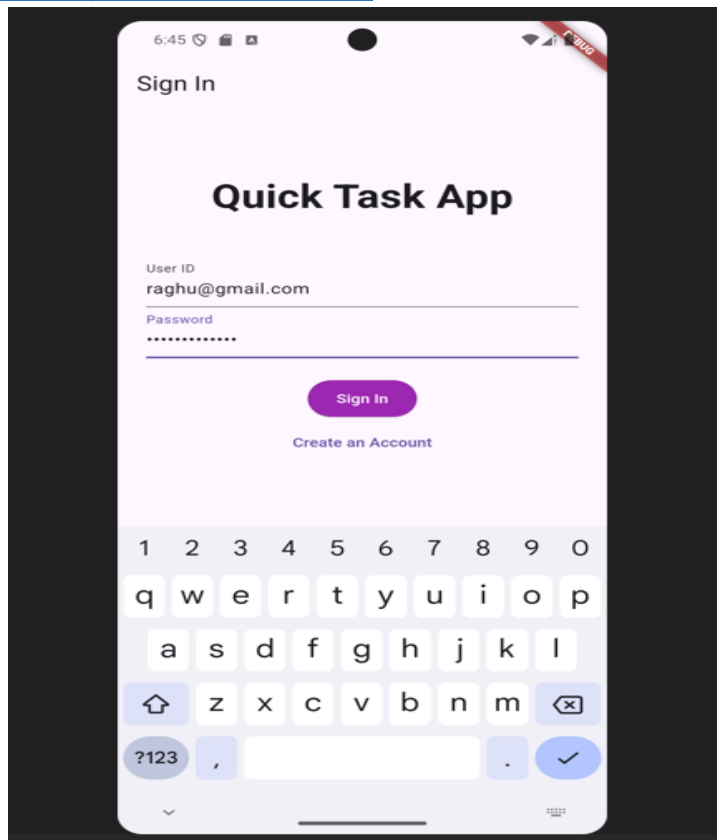
6.1 connectivity of flutter to Back4app:-

```
void main() async {  
  //Initialize Parse SDK with your Back4App credentials  
  await Parse().initialize(  
    'LMwUUMAbbVwmw6AJ3JKVImChm2it3LLgtN5GwSz', // Replace with your Back4App Application ID  
    'https://parseapi.back4app.com', // Replace with your Back4App server URL  
    clientKey: 'L5xQ2Rbw5or0fEELla1s0zn8WL12e2VoCqQZsl', // Optional, if you have a client key  
    autoSendSessionId: true,  
  );  
  runApp(MyApp());  
}
```

7. App Screens:

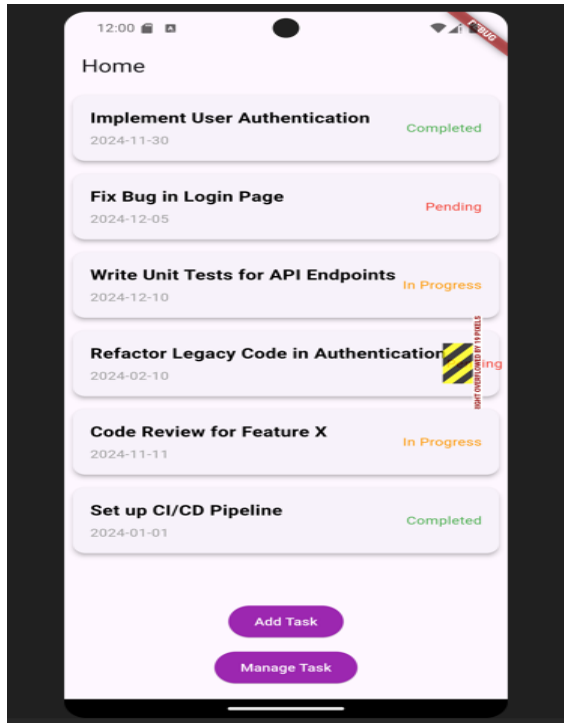


7.1 Login with credentials

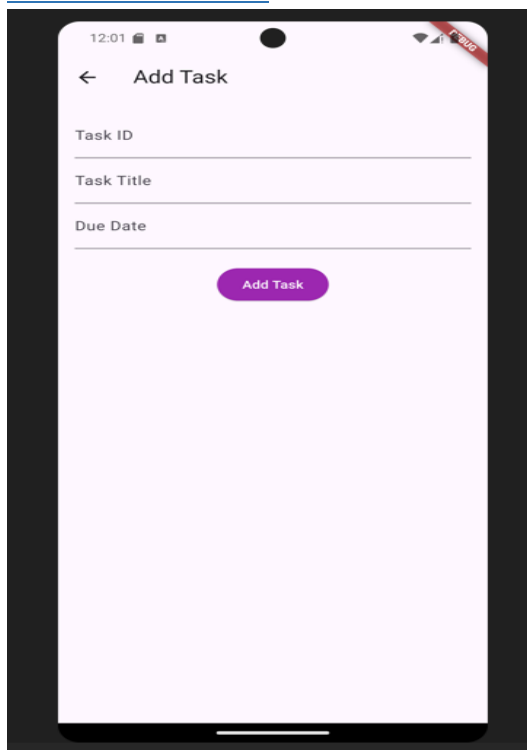


7.2 Task Dashboard

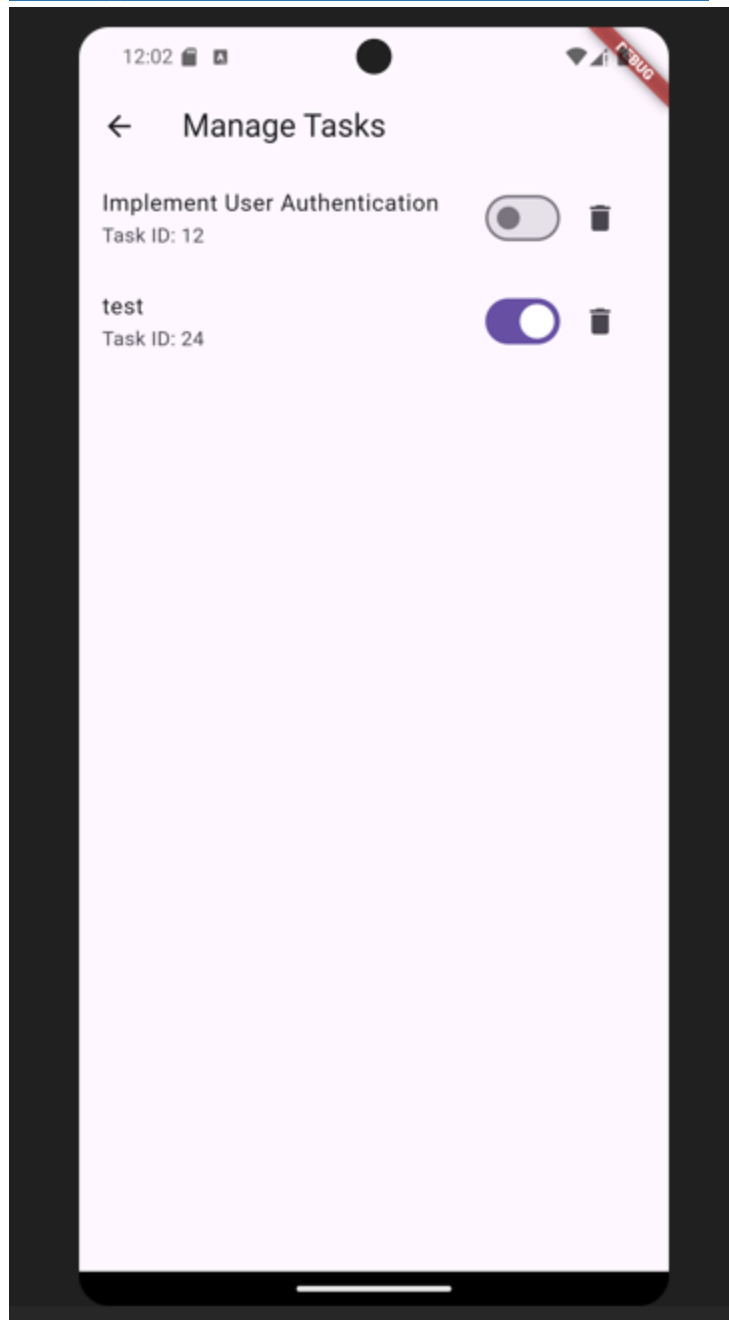
Which will display Task Title, DueDate, Status (In-progress, Pending, Completed)



7.3 Add New Task



[7.4 Toggle the Task \(enable or Disable\) & delete](#)



8.1. GitHub Source code:-

➤ Flutter source code :-

https://github.com/raghunathreddy/flutter_QuickTask_App/tree/main/quick_task_app

8.2 Back4App:-

<https://backend.back4app.com/apps/4dab7075-5dfe-47e0-9f40-a3f363f52ff6/browser/Tasks>

9. Demonstration Video

YouTube URL: <https://www.youtube.com/watch?v=CB26ER6uJJQ>