

Quick Task Pro

Sayantan Biswas

11th May, 2024

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Cross Platform Assignment

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2023mt93245

Introduction

Using Flutter and back4app as back-end an application has been created to manage to-do items for a person.

Using this app, we can maintain a list of Quick Task Items. We can add a to-do item, set a due date to complete the task, mark it as done and even delete the same.

Also, once the to do item is added it gets displayed as a list on the UI.



More Details

Software used for creating this app:

- Flutter
- Bak4app – Application is integrated to use version 7.0.0
- VS code
- Android Studio

Application code is available in GitHub URL as per below:

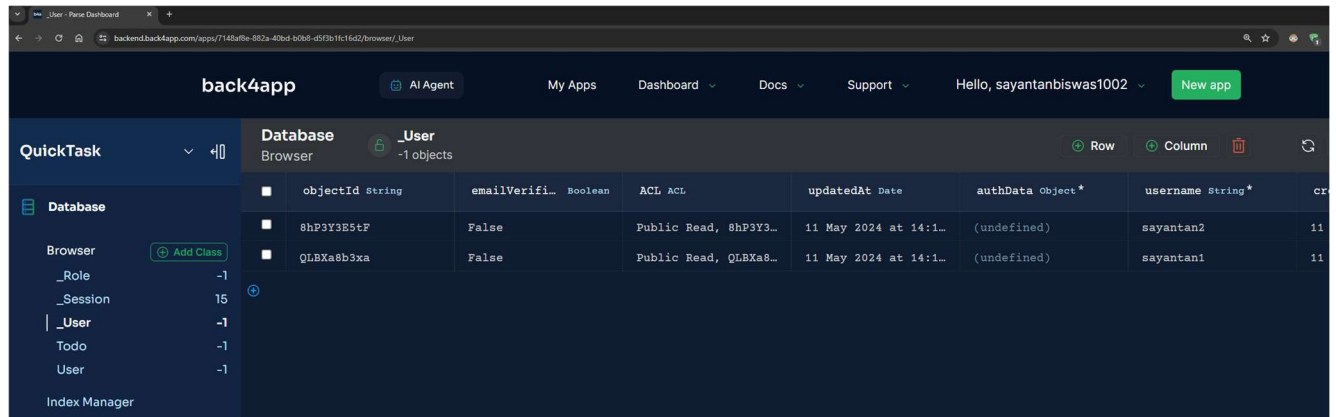
- Https: https://github.com/yo-sayantan/CPAD_Assignment_2023mt93245.git
- SSH: `git@github.com:yo-sayantan/CPAD_Assignment_2023mt93245.git`
- GitHub CLI: `gh repo clone yo-sayantan/CPAD_Assignment_2023mt93245`
- YouTube Link:

Functionalities

- People can login using their credentials.
 - If there is a new user, he/she can sign-up using their credentials.
 - The tasks made by the users are user specific and one can access the user respective tasks.
 - If the app is not logged in or credentials expired, it will redirect to the login page.
 - While adding a new to-do item, it will ask for the due date, by which the task needs to be completed, and arranges it in ascending order of the due date.
 - While adding a new to-do item a new record gets created at the back-end table in back4app and it gets reflected in the UI.
 - When the to-do item is marked as done the back-end record gets updated.
 - And when the to-do item is deleted from the list the back-end record gets deleted.
 - The to-dos are arranged in ascending order of due date.
 - The completed tasks are pushed at the bottom of the list.
 - The tasks can be deleted by that user only.
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Snapshots

1. Back4app dashboard, containing user logins



The screenshot shows the Back4app dashboard with the Database Browser open for the `_User` collection. The table displays the following data:

objectId	String	emailVerifi...	Boolean	ACL	ACL	updatedAt	Date	authData	object *	username	String *	cr
8hP3Y3E5tF		False		Public Read	8hP3Y3...	11 May 2024 at 14:1...		(undefined)		sayantan2		11
QLExa8b3xa		False		Public Read	QLExa8...	11 May 2024 at 14:1...		(undefined)		sayantan1		11

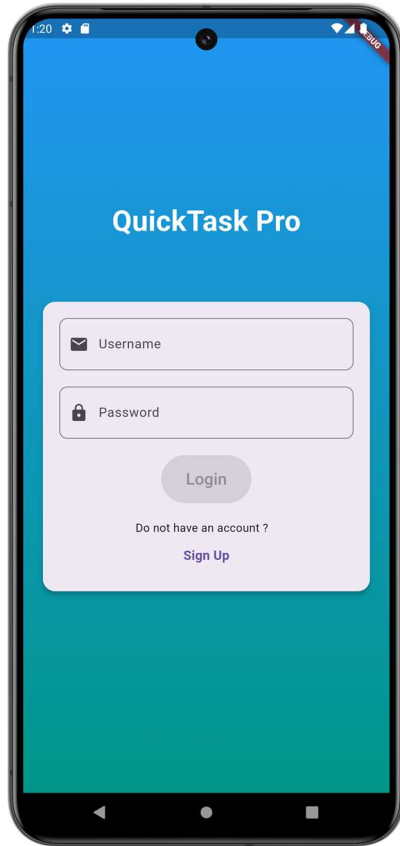
2. Back4App dashboard, containing some tasks



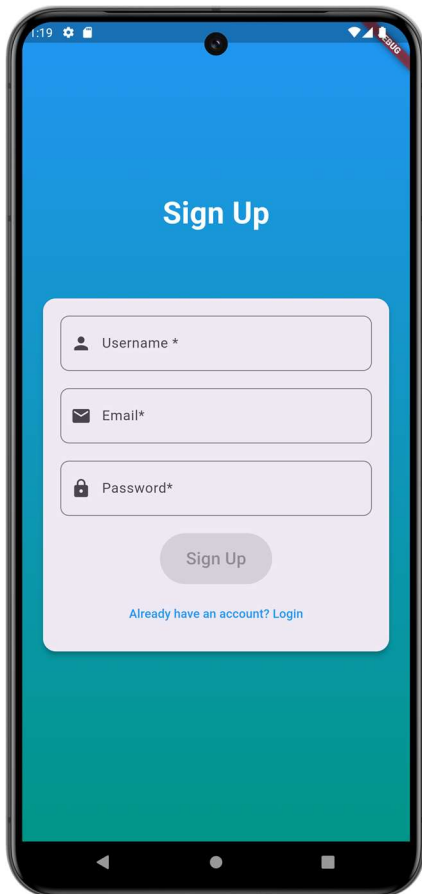
The screenshot shows the Back4app dashboard with the Database Browser open for the `Todo` collection. The table displays the following data:

objectId	String	createdAt	Date	updatedAt	Date	ACL	ACL	done	Boolean	title	String	targetDate	Date	userId	String
1tbuOJd9y9		11 May 2024 at 14:3...		11 May 2024 at 14:3...		Public Read + Write		True		Servicing		10 May 2024 at 18:3...		8hP3Y3E5tF	
2zDS7DGa0E		11 May 2024 at 14:3...		11 May 2024 at 14:3...		Public Read + Write		False		BigBasket		12 May 2024 at 18:3...		8hP3Y3E5tF	
ZNdHk1Vahf		11 May 2024 at 14:3...		11 May 2024 at 14:3...		Public Read + Write		False		Shopping		15 May 2024 at 18:3...		8hP3Y3E5tF	
tuF3mCHieA		11 May 2024 at 14:2...		11 May 2024 at 14:3...		Public Read + Write		True		Yoga		10 May 2024 at 18:3...		QLExa8b3xa	
YWu9EF9FqV		11 May 2024 at 14:2...		11 May 2024 at 14:3...		Public Read + Write		False		Laundry		11 May 2024 at 18:3...		QLExa8b3xa	
5PrERFxiini		11 May 2024 at 14:2...		11 May 2024 at 14:3...		Public Read + Write		False		Grocery		12 May 2024 at 18:3...		QLExa8b3xa	

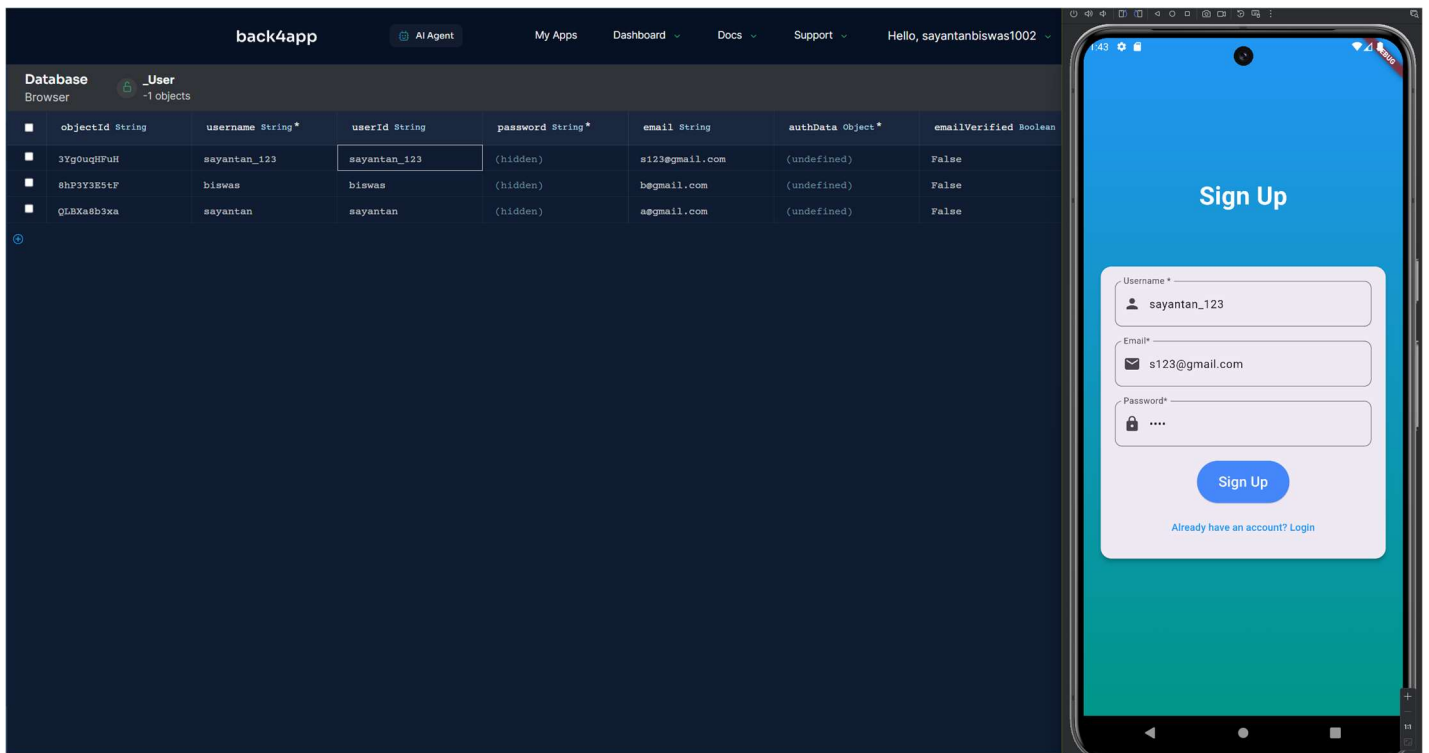
3. Android app in Login Page



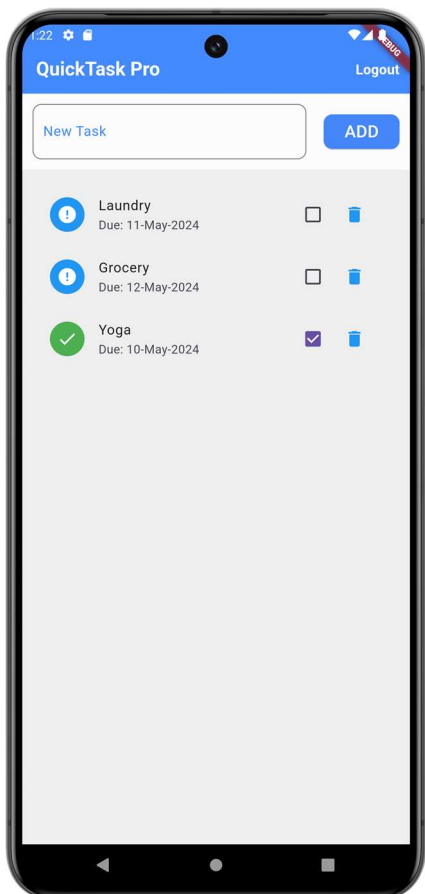
4. Android app in Signup Page



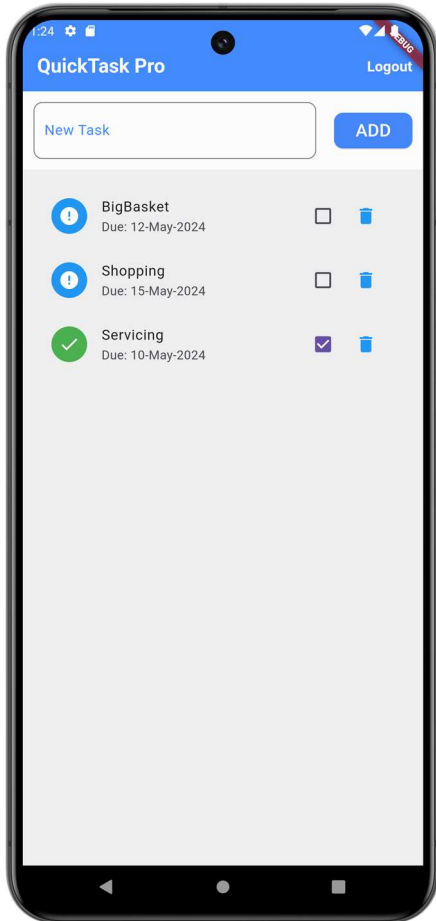
5. Signed up a new user –



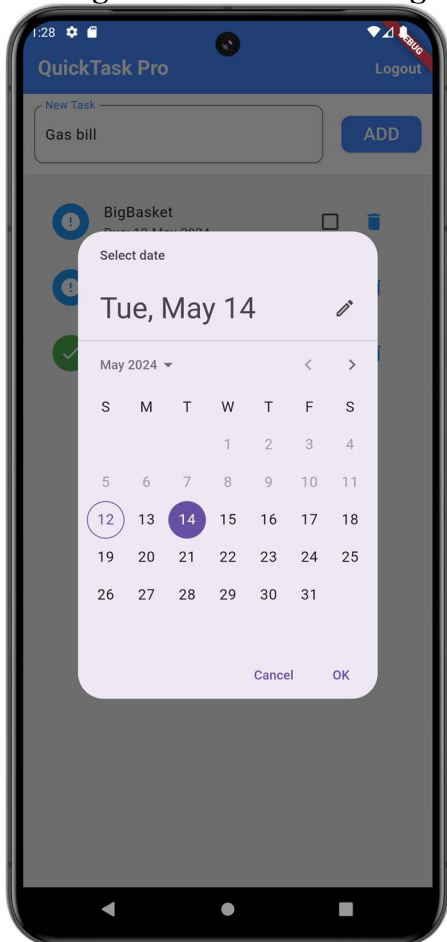
6. Logged in to user – “sayantan”. Some tasks are added, some are done. Tasks are sorted according to the due date.



7. Logged in to user – “biswas”. These tasks are different as this is a different user.



8. Adding due date while adding a new task –



9. Adding a new task – “Gas bill” due by 14th May, a new row with status False got added.

The screenshot shows the back4app database interface on the left and the QuickTask Pro app on the right. The database table 'Todo' contains 6 objects. The 'Gas bill' task has been added with a status of False.

objectId	String	user...	String	targetDate	Date	done	Boolean	title	String	updatedAt	Date	createdAt	Date
2zDS7DGa0E		8hP3Y3E5tF		12 May 2024 at 18:3...		False		BigBasket		11 May 2024 at 14:3...		11 May 2024	
RfefboAD0m		8hP3Y3E5tF		14 May 2024 at 18:3...		False		Gas bill		11 May 2024 at 20:0...		11 May 2024	
ZNDHkiVahf		8hP3Y3E5tF		15 May 2024 at 18:3...		False		Shopping		11 May 2024 at 20:0...		11 May 2024	
ltbuQJd9y9		8hP3Y3E5tF		10 May 2024 at 18:3...		True		Servicing		11 May 2024 at 14:3...		11 May 2024	
5PrERFxiNi		QLBXa8b3xa		12 May 2024 at 18:3...		False		Grocery		11 May 2024 at 14:3...		11 May 2024	
YWu9Ef9PqV		QLBXa8b3xa		11 May 2024 at 18:3...		False		Laundry		11 May 2024 at 14:3...		11 May 2024	
tuF3mCHieA		QLBXa8b3xa		10 May 2024 at 18:3...		True		Yoga		11 May 2024 at 14:3...		11 May 2024	

The QuickTask Pro app shows a list of tasks: BigBasket (Due: 12-May-2024), Gas bill (Due: 14-May-2024), Shopping (Due: 15-May-2024), Servicing (Due: 10-May-2024), and Grocery (Due: 10-May-2024). The 'Gas bill' task is highlighted.

10. Completing a task – Completed the task Shopping, the status changed to True in back4App.

The screenshot shows the back4app database interface on the left and the QuickTask Pro app on the right. The 'Shopping' task has been completed, and its status has changed to True.

objectId	String	user...	String	targetDate	Date	done	Boolean	title	String	updatedAt	Date	createdAt	Date
2zDS7DGa0E		8hP3Y3E5tF		12 May 2024 at 18:3...		False		BigBasket		11 May 2024 at 14:3...		11 May 2024	
RfefboAD0m		8hP3Y3E5tF		14 May 2024 at 18:3...		False		Gas bill		11 May 2024 at 20:0...		11 May 2024	
ZNDHkiVahf		8hP3Y3E5tF		15 May 2024 at 18:3...		True		Shopping		11 May 2024 at 20:0...		11 May 2024	
ltbuQJd9y9		8hP3Y3E5tF		10 May 2024 at 18:3...		True		Servicing		11 May 2024 at 14:3...		11 May 2024	
5PrERFxiNi		QLBXa8b3xa		12 May 2024 at 18:3...		False		Grocery		11 May 2024 at 14:3...		11 May 2024	
YWu9Ef9PqV		QLBXa8b3xa		11 May 2024 at 18:3...		False		Laundry		11 May 2024 at 14:3...		11 May 2024	
tuF3mCHieA		QLBXa8b3xa		10 May 2024 at 18:3...		True		Yoga		11 May 2024 at 14:3...		11 May 2024	

The QuickTask Pro app shows a list of tasks: BigBasket (Due: 12-May-2024), Gas bill (Due: 14-May-2024), Servicing (Due: 10-May-2024), and Shopping (Due: 15-May-2024). The 'Shopping' task is highlighted and marked as completed.

11. Deleting a task – Deleted the task “BigBasket”, got removed from UI and DB.

back4app

AI AgentMy AppsDashboard▼Docs▼Support▼Hello, sayantanbiswas1002▼

Database

Browser

Todo

6 objects

objectid	String	user_	String	targetDate	Date	done	Boolean	title	String	updatedAt	Date	createdAt	Date
RfefboADom		8hF3Y3E5tF		14 May 2024 at 18:3...		False		Gas bill		11 May 2024 at 20:0...		11 May 2024	
ZNDHkiVahf		8hF3Y3E5tF		15 May 2024 at 18:3...		True		Shopping		11 May 2024 at 20:0...		11 May 2024	
lcbuOjD9y9		8hF3Y3E5tF		10 May 2024 at 18:3...		True		Servicing		11 May 2024 at 14:3...		11 May 2024	
5PpERFxiNi		QLBXa8b3xa		12 May 2024 at 18:3...		False		Grocery		11 May 2024 at 14:3...		11 May 2024	
YWu9EF9FqV		QLBXa8b3xa		11 May 2024 at 18:3...		False		Laundry		11 May 2024 at 14:3...		11 May 2024	
tuF3mCH1eA		QLBXa8b3xa		10 May 2024 at 18:3...		True		Yoga		11 May 2024 at 14:3...		11 May 2024	

QuickTask Pro

Logout

New Task

ADD

Gas bill

Due: 14-May-2024

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Servicing

Due: 10-May-2024

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Shopping

Due: 15-May-2024

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Thank You