

Time Tracker App User Manual

This manual explains the features and functionality of the **Time Tracker** app. Follow the instructions below to understand how to use the app's core features.

App Features

1. **Add Task**
Allows you to add a task with details like name, tags, date, start time, and end time. These tasks are stored in Firebase Firestore.
 2. **Search Tasks by Tag**
Search for tasks based on specific tags.
 3. **Generate Reports**
View tasks within a specific date range.
-

Setup

1. Ensure you have configured Firebase correctly with the `firebase_options.dart` file.
 2. Add a valid Firestore database to store task details.
 3. Run the app using `flutter run` in your terminal.
-

Feature Instructions

1. Add Task

- Fill in the following fields:
 - **Task Name:** Enter a descriptive name for the task.
 - **Tags:** Enter one or more tags associated with the task.
 - **Date:** Specify the date in `YYYY-MM-DD` format.
 - **Start Time:** Enter the start time in `HH:mm` format.
 - **End Time:** Enter the end time in `HH:mm` format.
- Click the **Add Task** button.
- If any fields are left empty, a notification will prompt you to fill all fields.

- Upon successful addition, a confirmation message will appear.
-

2. Search Tasks by Tag

- Click the **Search Tasks by Tag** button.
 - Enter a tag in the search dialog.
 - Click **Search** to find tasks with the specified tag.
 - A dialog will display the search results, showing:
 - Task name
 - Date
 - Start and End times
 - If no tasks are found, a notification will indicate this.
-

3. Generate Reports

- Click the **Generate Report** button.
 - Enter a **Start Date** and **End Date** in **YYYY-MM-DD** format.
 - Click **Search** to generate a report for tasks within the date range.
 - A dialog will display the results, including:
 - Task name
 - Date
 - Start and End times
 - If no tasks match the date range, a notification will appear.
-

Error Handling

- If a field is incomplete or invalid (e.g., wrong date/time format), the app will notify you to correct the input.
 - For any Firebase-related errors, a notification will display the error details.
-

Additional Notes

- Ensure proper internet connectivity as the app interacts with Firebase.
- Use valid **YYYY-MM-DD** and **HH:mm** formats for date and time inputs to avoid errors.
- Customize the app's appearance via the **ThemeData** in **MyApp**.

Enjoy using the Time Tracker app!