

Project Report

Time Tracker Application

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Subject

Mobile Application Development (CEP)

Date of Submission

25 / 10 / 2024

Real-World Problem Identification:

In fast-paced environments, whether at work, school or in personal life, time management is crucial to maintaining productivity and meeting deadlines. Many individuals and teams struggle to keep track of time spent on various tasks, leading to:

1. Poor Task Management:

- a. Inability to monitor how long certain tasks are taking.

2. Lack of Accountability and Focus:

- a. Without time logs, it is difficult to reflect on past performance or identify areas for improvement.
- b. Users may get distracted without tracking their progress or being aware of how much time is spent on tasks.

3. Limited Visibility of Activities:

- a. For complex tasks, users may forget about previously logged sessions or spend time duplicating effort.
- b. Without activity logs, it becomes hard to identify time-wasters and understand where time is being allocated.

4. Challenges in Personal Productivity and Teamwork:

- a. Many available productivity apps are either too complex or lack user-friendly tracking tools.
- b. Teams and individuals need a simple, task-focused solution to stay on top of their workload and measure progress effectively.

Proposed Solution:

The **Time Tracker App** addresses these challenges by offering a practical and easy-to-use platform for individuals to efficiently track their work sessions, focus on tasks, and maintain accountability. The app's core features help users **improve task management, log work sessions, and reflect on their productivity patterns.**

Key Features & Benefits:

1. Categorization of Tasks (Incompleted vs Completed):

- Users can easily **distinguish between ongoing and completed tasks** through the tabbed interface, improving focus on pending tasks.

2. Task Time Tracking with Start/Stop Functionality:

- Each task contains a **dedicated timer** that allows users to start and stop tracking sessions.

3. Activity Logging for Session Monitoring:

- The app logs each **work session** for every task, including **start time, end time, and total duration**.
- This log serves as a historical reference, helping users **analyze patterns and optimize their workflows**.

4. Improved Productivity with Real-Time Feedback:

- The timer gives **instant feedback** on how much time has been spent on a task, promoting better focus and discouraging procrastination.

5. Simplified User Experience:

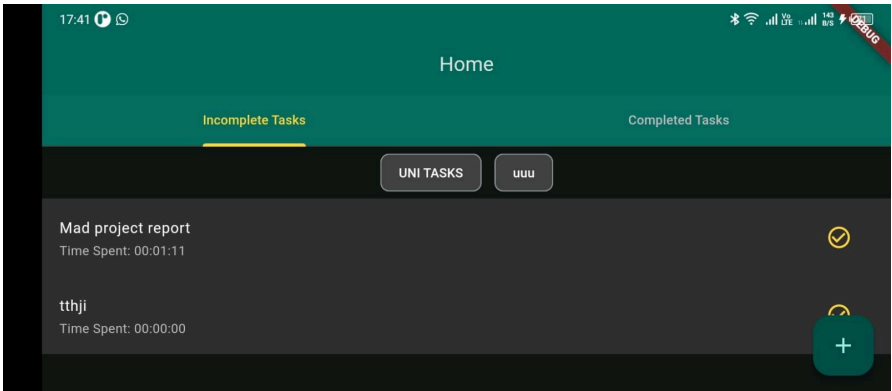
- The clean UI ensures users can **quickly access tasks and logs** without needing to navigate complex menus, making the app ideal for daily personal or professional use.

6. Enhanced Accountability:

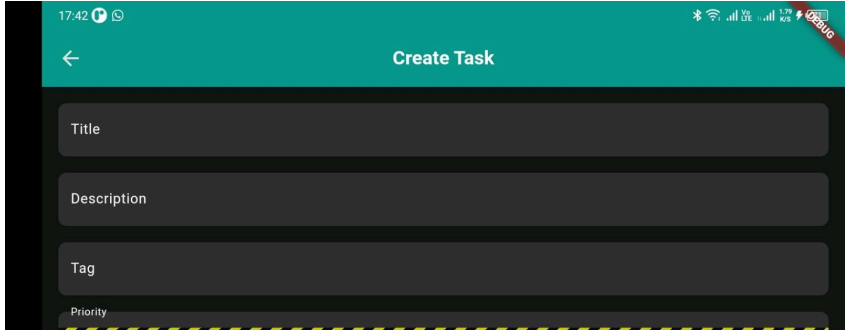
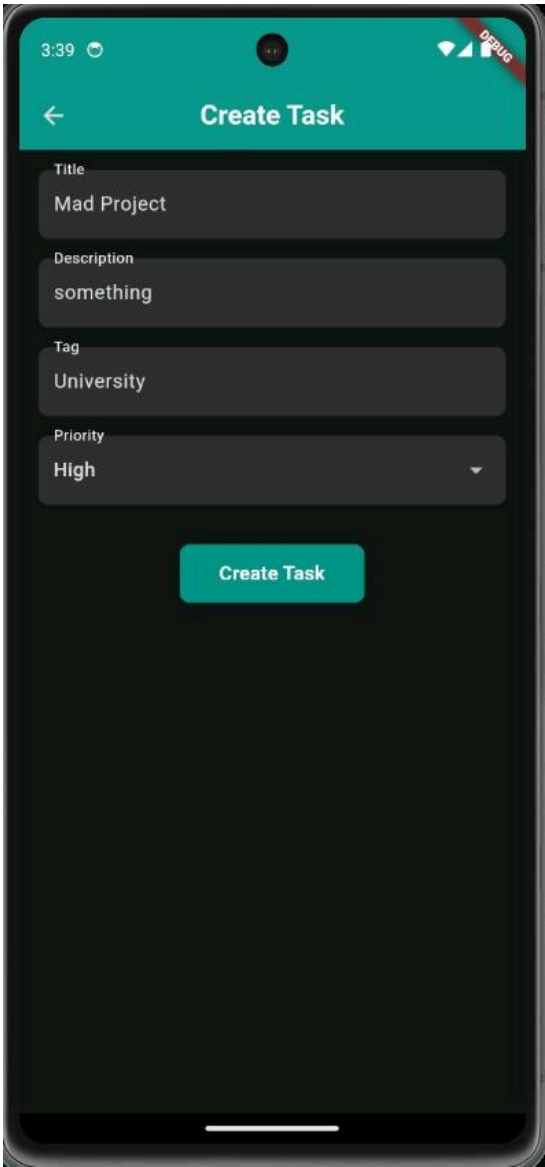
- Having a **record of activities** ensures users (or teams) remain accountable for the time they spend on various tasks. This is especially useful for freelancers or remote workers who need to report task completion.

Responsive Screens

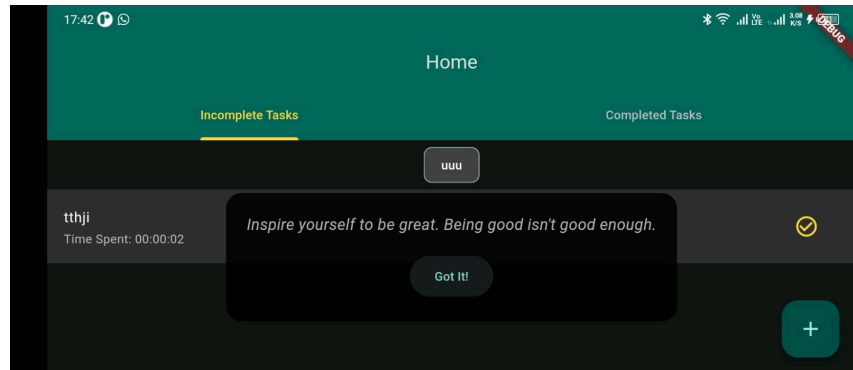
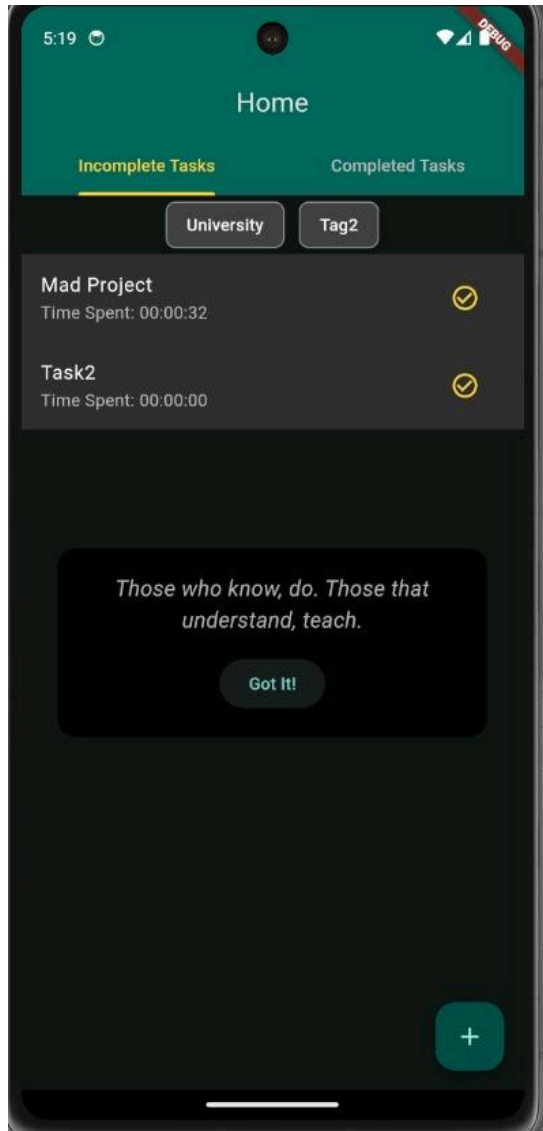
Home Screen



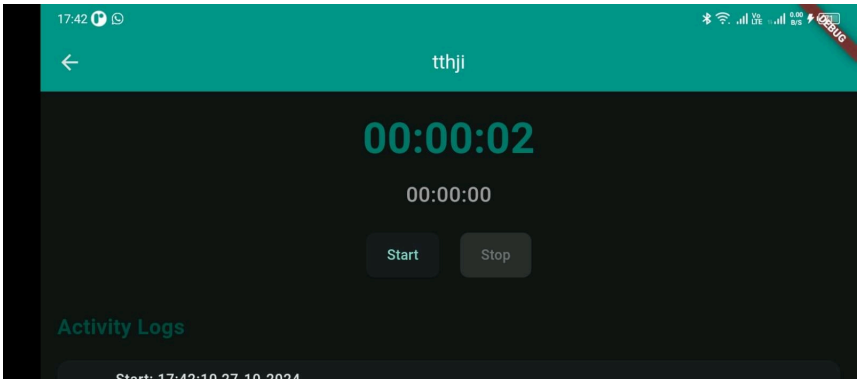
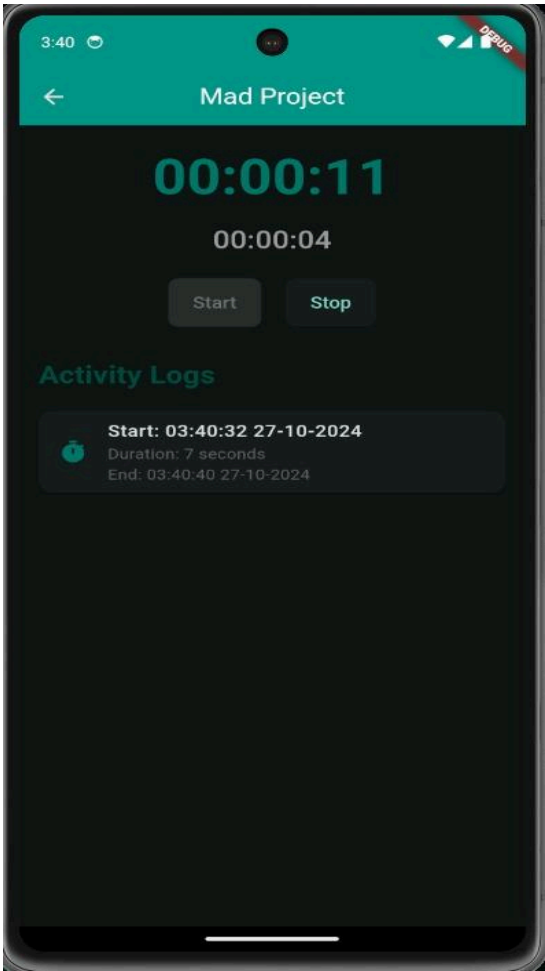
Create Task Screen



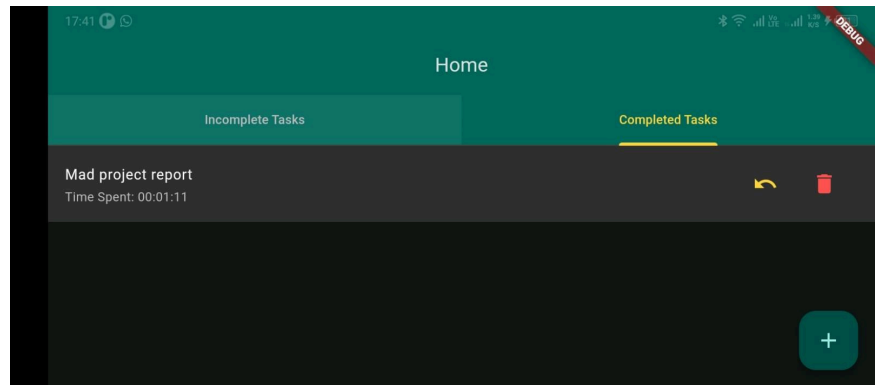
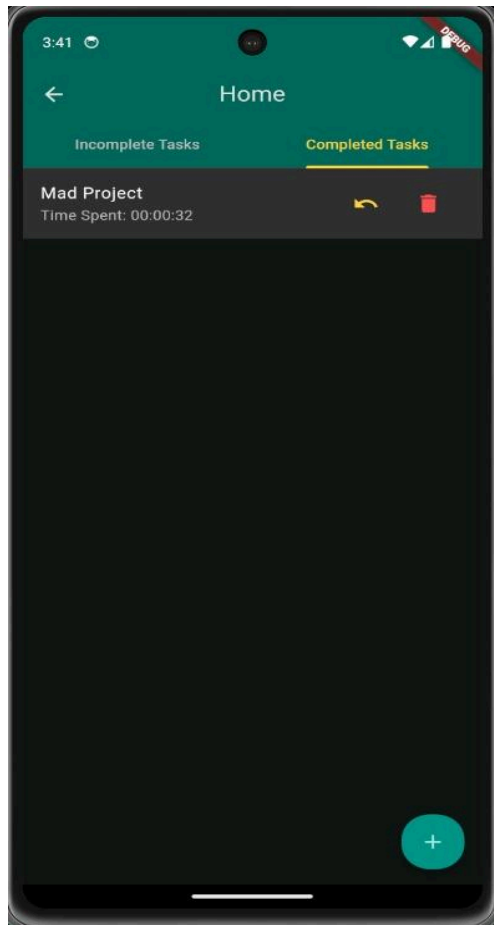
Working of Tags In Incomplete Tab



Task Detail with Activity Logs



Completed Task Tab



DB Models

Task:

id: String
title: String
description: String?
tag: String?
createdAt: DateTime
total time: int
incomplete: bool
priority: int

Activity:

id: String?
taskId: String
startTime: DateTime
endTime: DateTime
duration: int
notes: String?