

# TaskMaster - React Native To-Do App

YURIKA PRAJAPATI

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## Overview

TaskMaster is a **React Native To-Do app** designed to help users efficiently manage their daily tasks. The app provides a structured interface with multiple tabs, robust authentication, task notifications, and a smooth workflow. It uses **Redux** for state management and **AsyncStorage** to persist tasks locally, ensuring that users' data remains consistent across sessions. Push notifications and reminders help users stay on top of their tasks without missing deadlines.

## Authentication

The app provides secure login [Figure 2] and signup [Figure 1] functionality with **form validation**, ensuring that users enter valid email addresses, strong passwords, [Figure 3] and complete required fields. Additionally, it integrates **Google Sign-In** [Figure 4], offering a convenient and secure alternative for logging in. This ensures that users can quickly access their tasks while maintaining account security.

## Home Tab

The Home tab [Figure 5] provides a **summary of tasks**, including total tasks, completed tasks, and pending tasks, giving users an overview of their daily workload. A **draggable Add button** allows users to quickly create new tasks. When a task is added, the app triggers an **instant push notification** to confirm creation and schedules a **reminder notification 2 minutes ahead** to ensure timely completion.

## History Tab

The History tab [Figure 6] categorizes all tasks as **Active** or **Completed**, allowing users to track their progress and review past activities. This feature helps in understanding productivity patterns and maintaining accountability.

## Profile Tab

The Profile tab [Figure 9] displays the user's account information, such as email and profile details, and provides a **logout option** for secure session management. Users can view and verify their account information at any time.

## Task Features

Each task item supports multiple operations: users can **view details**, **edit**, **delete**, and **mark tasks as done** [Figure 12]. These actions are reflected immediately in the app, keeping the task list accurate and up-to-date. Notifications and reminders ensure that users stay informed about their tasks.

## State Management and Notifications

TaskMaster uses **Redux** to manage the global state of tasks efficiently and **AsyncStorage** to persist tasks locally between app sessions. Push notifications provide immediate feedback when tasks are added [Figure 15], while scheduled reminders notify users 2 minutes ahead of a pending task [Figure 16], improving task completion rates. Also, while clicking the notification, it navigates to detail page.

## Technologies Used

React Native, Firebase Authentication, Google Sign-In, Redux, AsyncStorage, React Native Push Notifications.

## Conclusion

TaskMaster combines secure authentication, efficient task management, notifications, and a clean user interface. The app's structured design and reliable reminder system help users stay organized and productive in managing their daily tasks.

# Create Account



Username



email



password

Show

[Forgot Password?](#)

**Create Account**

**OR**



Sign up with Google



Sign up with Facebook

Already have an account? [Login](#)

Figure 1: Signup Form with Validation and Google Sign-In

# Welcome



email



password

Show

[Forgot Password?](#)

**Log In**

**OR**



Sign up with Google





Sign up with Facebook

Don't have an account? [Sign Up](#)


Figure 2: Login Form with Validation and Google Sign-In

# Create Account

 hey

 hey

Please enter a valid email address.

 ...


Show

Password must be at least 6 characters.

[Forgot Password?](#)

Create Account

OR

 Sign up with Google

1 2 3 4 5 6 7 8 9 0  
q w e r t y u i o p  
a s d f g h j k l  
↑ z x c v b n m ↵  
?123 , . English ✓

Figure 3: Form showing Validation

5

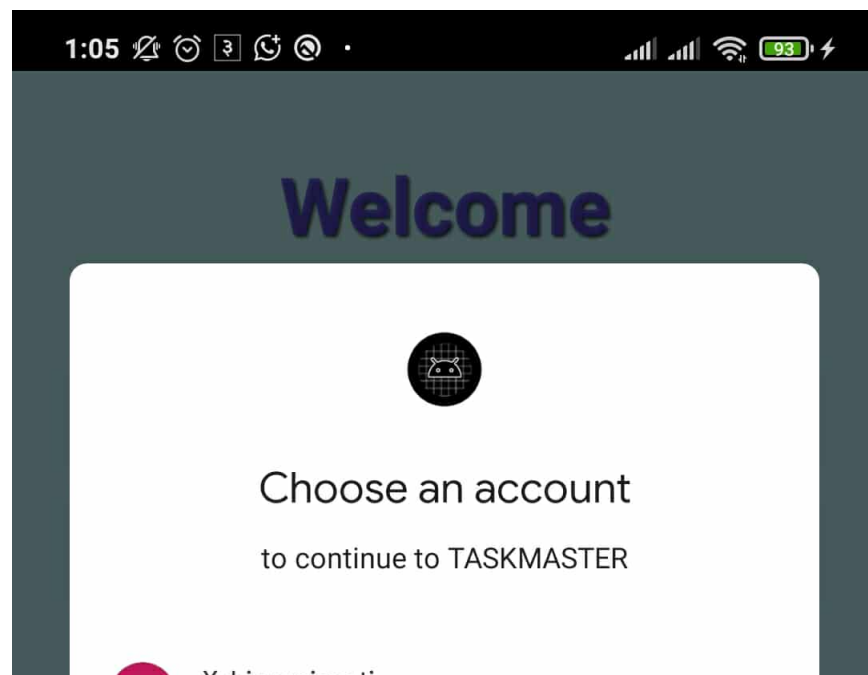


Figure 4: Google sign in

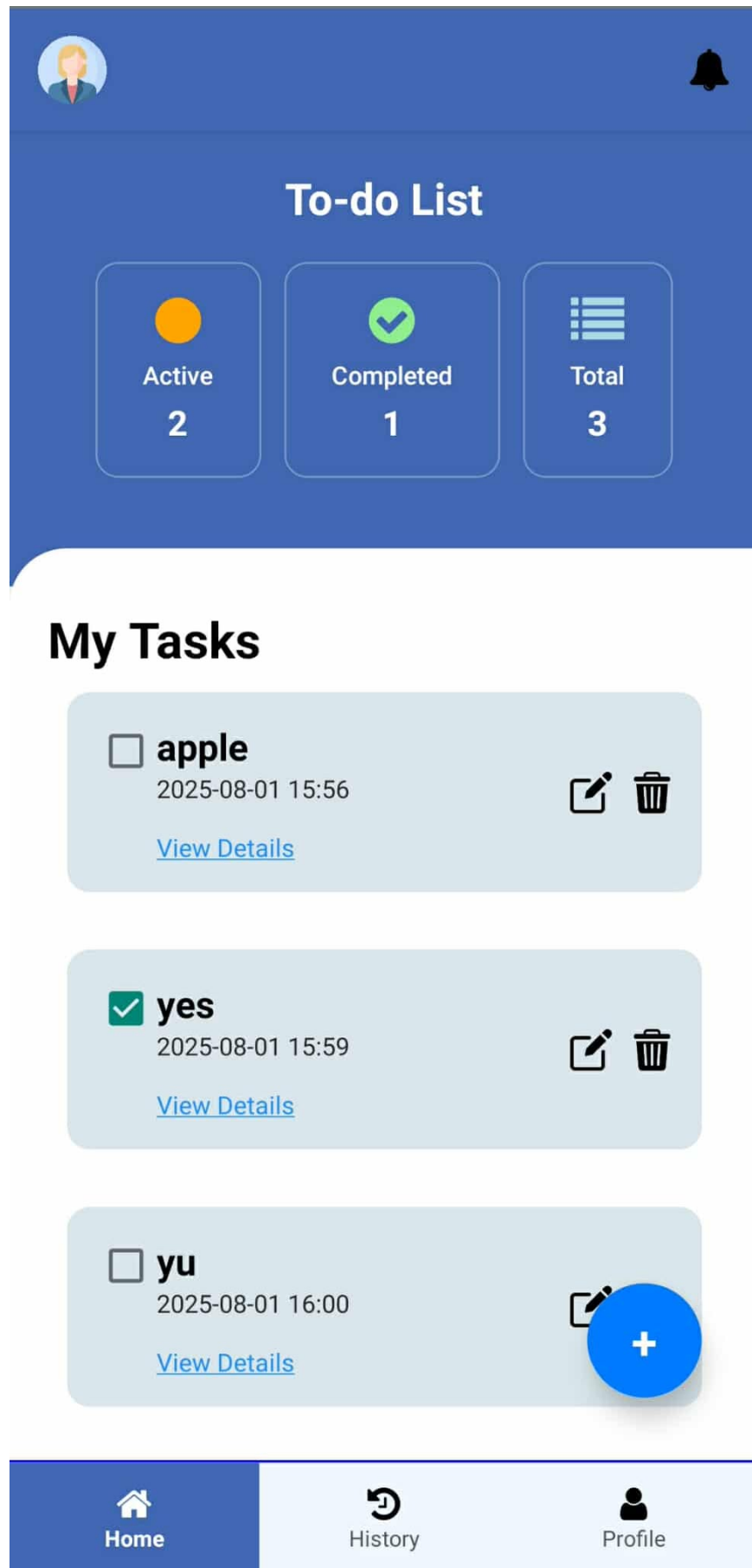


Figure 5: Home Tab showing task summary and Add button

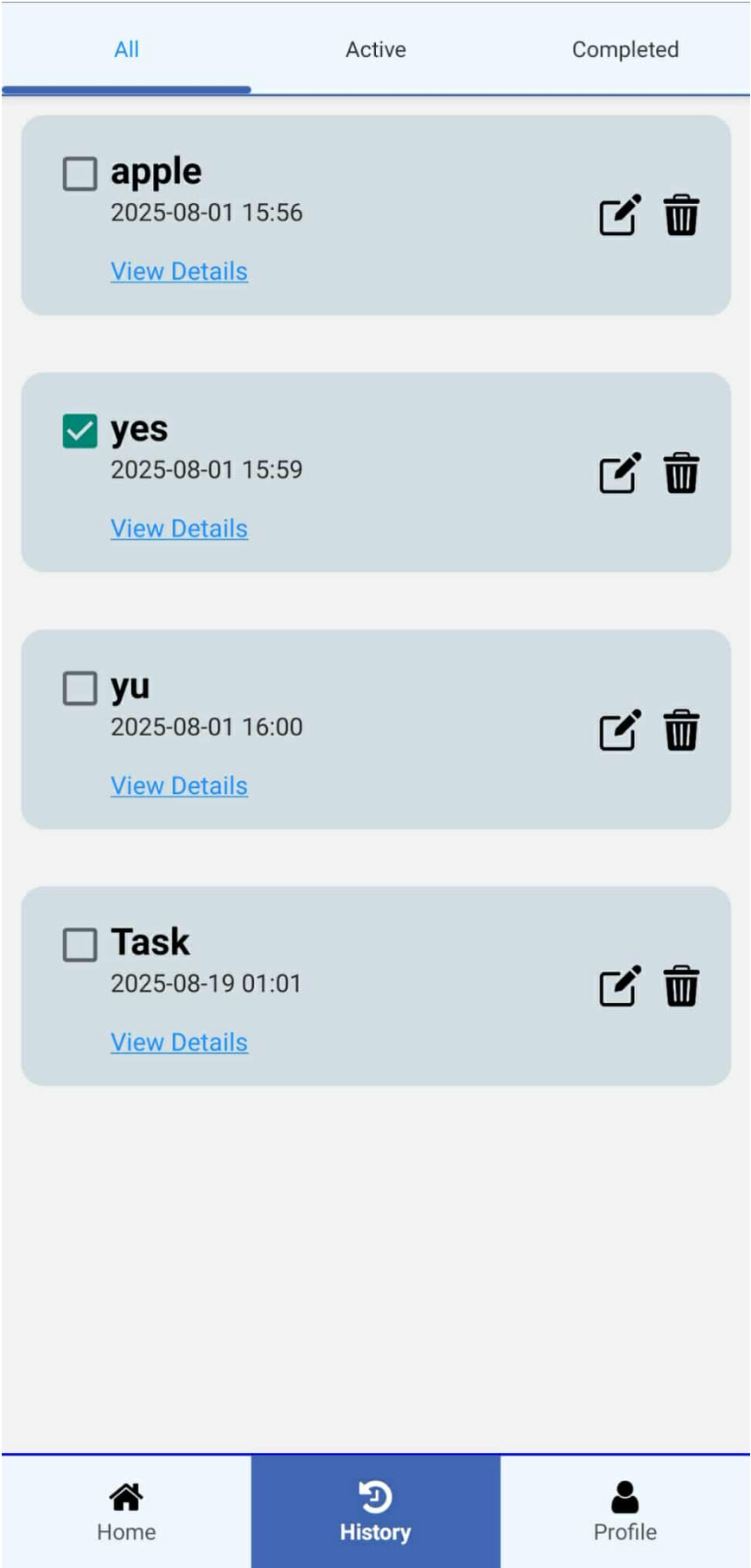


Figure 6: History Tab displaying all tasks



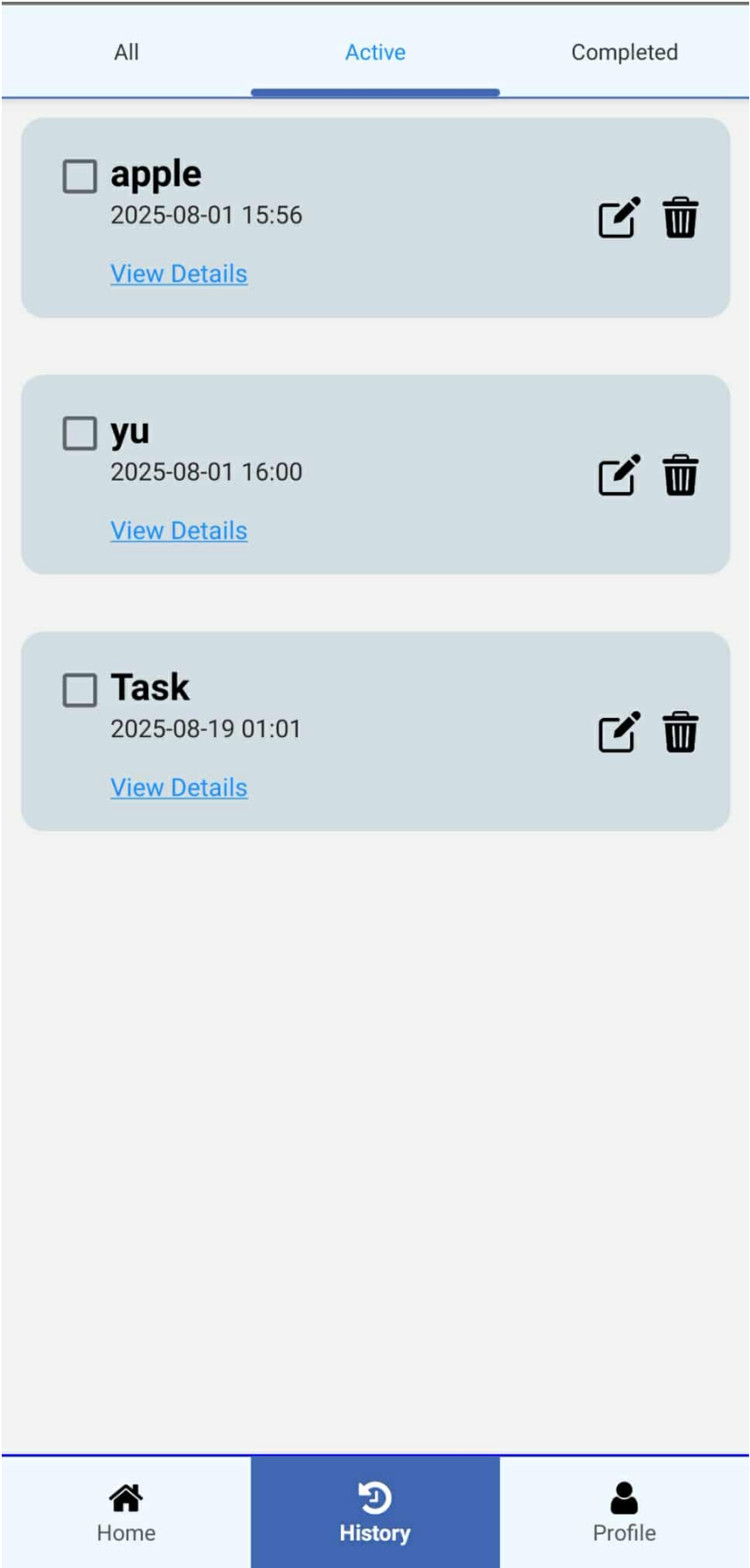


Figure 7: History Tab displaying Active tasks

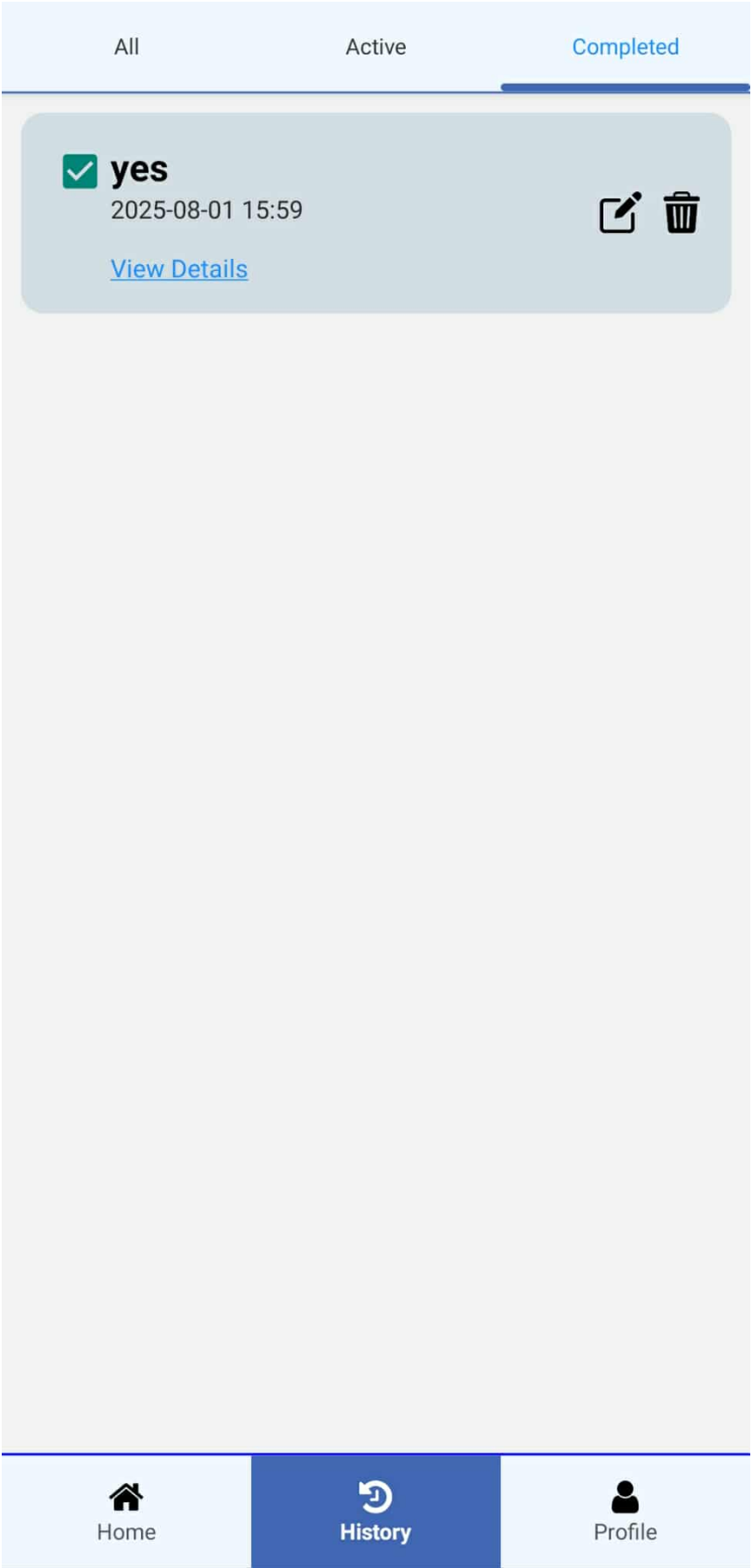


Figure 8: History Tab displaying Completed tasks

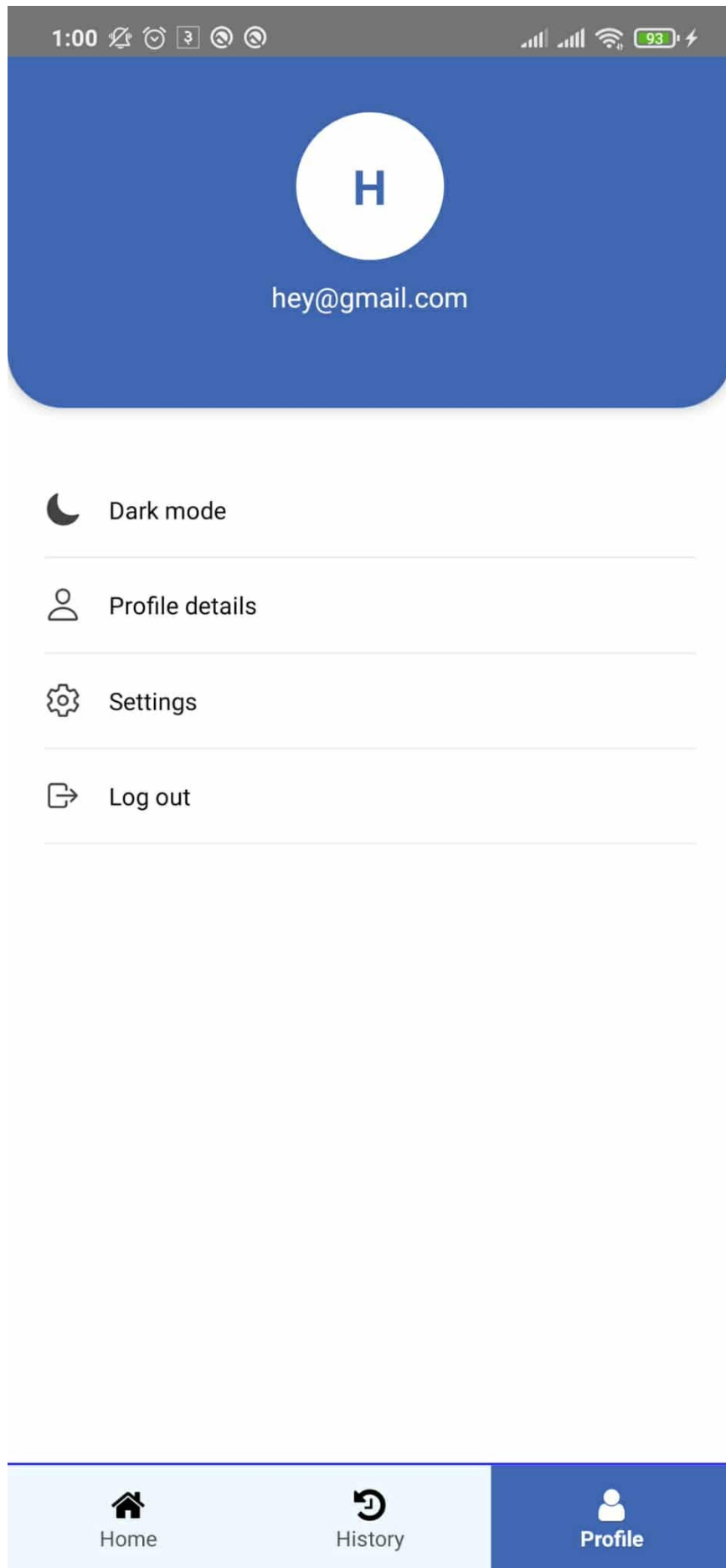


Figure 9: Profile Tab showing user details and logout

The image shows a mobile application interface for creating a task. At the top, there is a status bar with the time 1:02, various system icons, and a battery level of 93%. Below the status bar is a blue header area with a black 'X' icon in the top left corner. The main content area is white and contains the title 'Create Task' in a large, bold, black font. Below the title are three input fields, each with a label above it: 'title' (containing the text 'Task'), 'description' (containing the text 'Taskmaster Taskmaster' with a green cursor at the end), and 'Date' (containing the text '2025-08-19 01:01'). At the bottom of the form are two black buttons with white text: 'Save' and 'Cancel'.

1:02

93

X

# Create Task

title

Task

description

Taskmaster Taskmaster

Date

2025-08-19 01:01

Save Cancel

Figure 10: Draggable add button open the task form



Figure 11: Task added notification

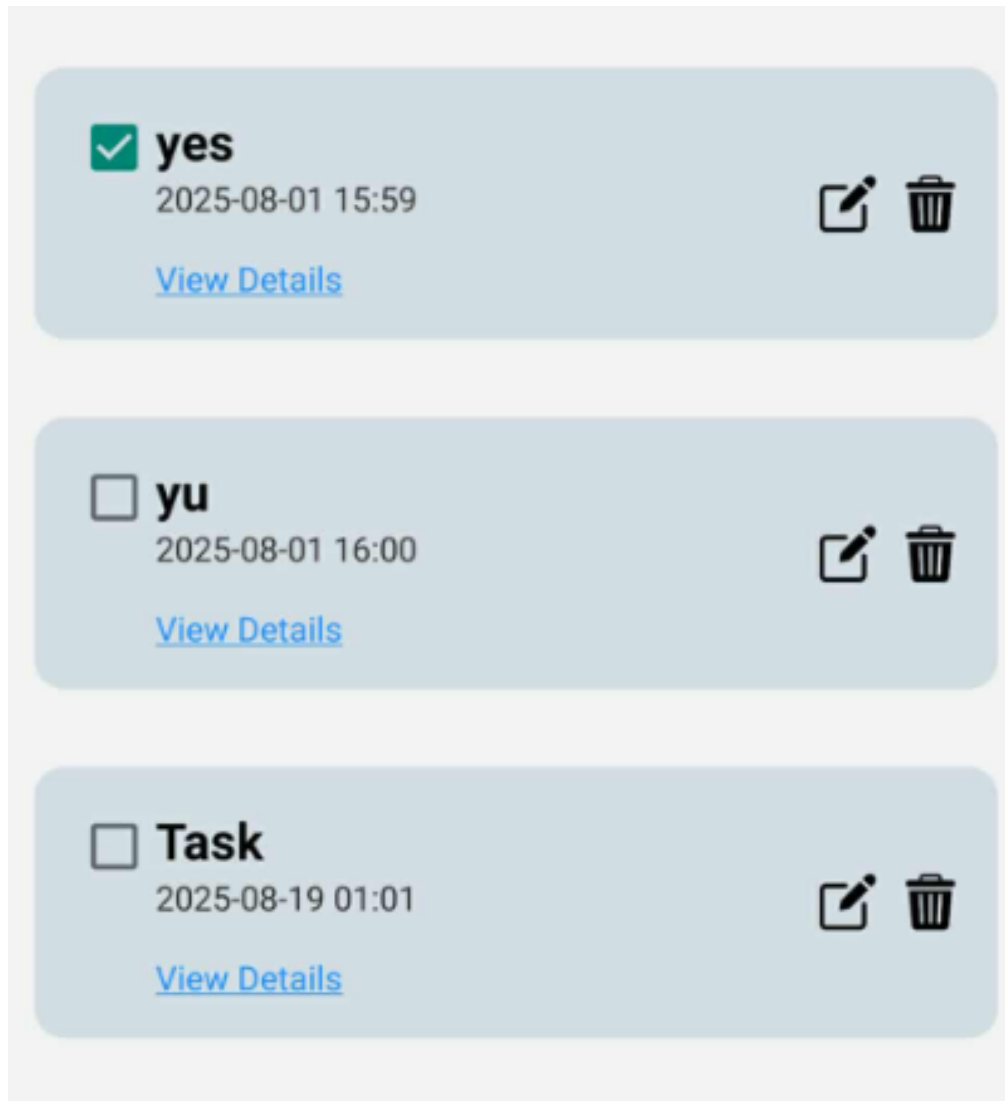


Figure 12: Task item with edit, delete, view, and mark as done features

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← DetailsTask



**Title:**

Task

**Date:**

2025-08-19 01:01

**Description:**

Taskmaster Taskmaster

Figure 13: Detail page of task with description

1:12 [notification icons] [signal icons] [94% battery]

✕

## Create Task

title

reminder

description

2min ahead task reminder

Date

2025-08-19 01:15

Save Cancel

Figure 14: showing reminder task add form

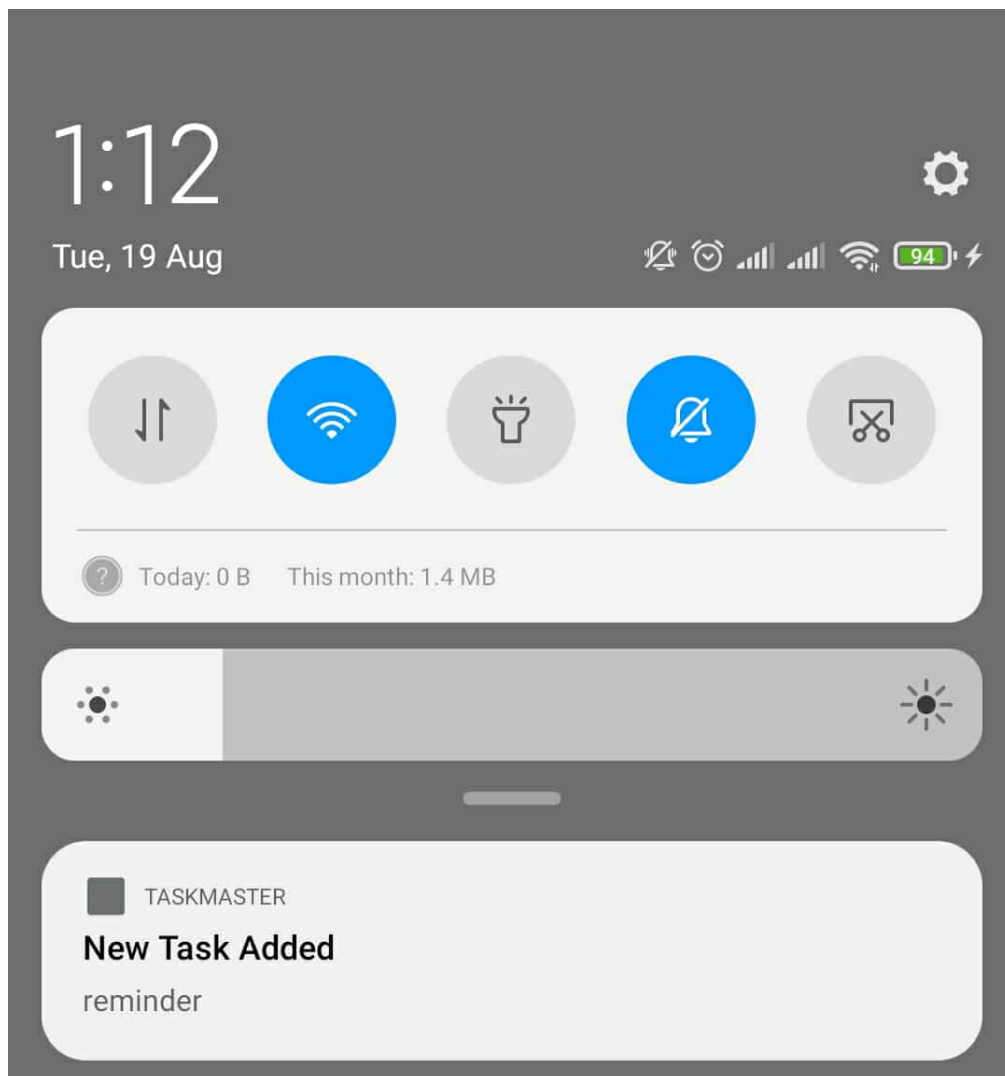


Figure 15: notification of reminder task add



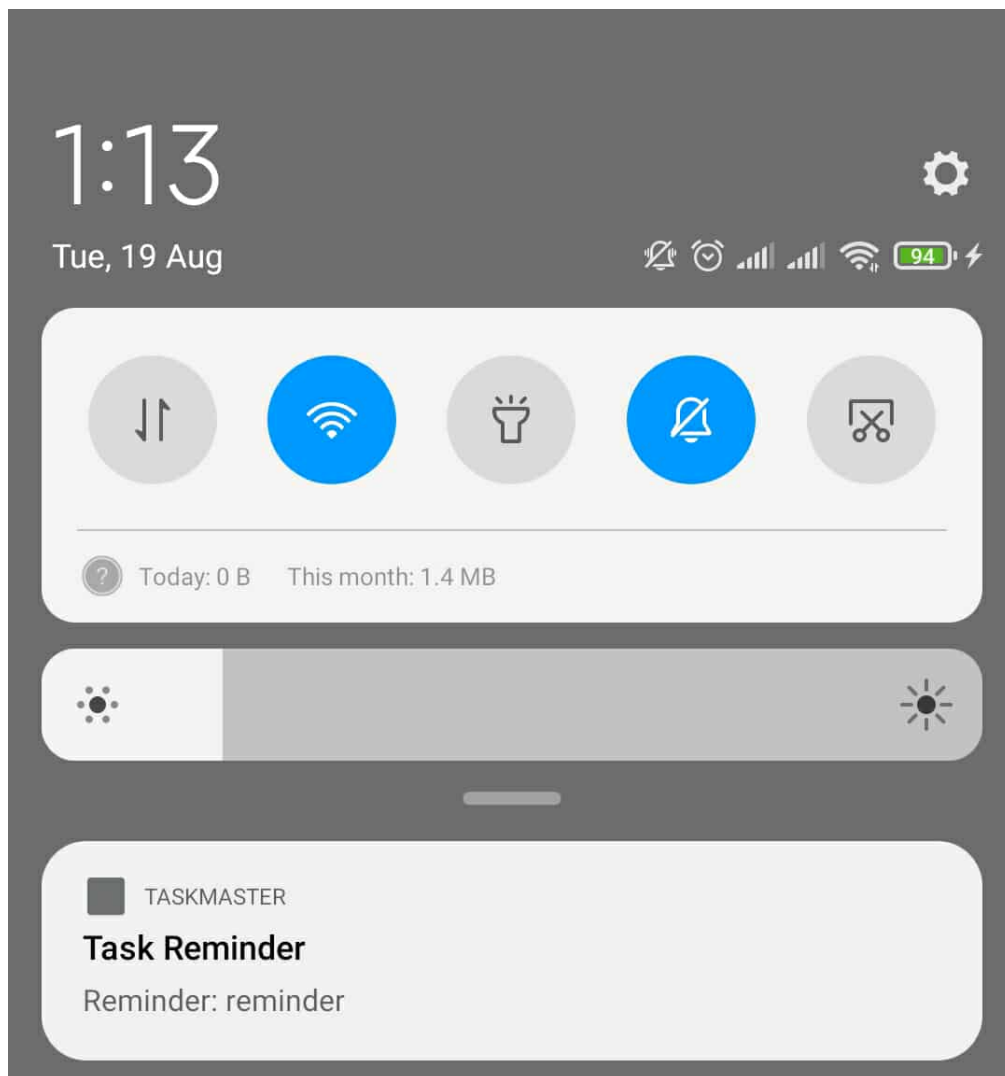


Figure 16: 2 minute ahead reminder notification of reminder task