

# Project Documentation: Task Manager

A comprehensive task management application that allows users to create, update, delete, and manage their tasks. It integrates Firebase for authentication. The application also features a leaderboard that ranks users based on task completions over different time periods (daily, weekly, monthly, or all-time).

## ***Main Directory Structure***

The main directory contains two primary folders: ``assets`` and ``src``.

## ***Environment Configuration***

``.env`` - Contains all the keys retrieved from Firebase. To maintain security, these keys are stored in the ``.env`` file, which is not publicly available.

## ***Main Screens***

### **1. LoginScreen**

- Users can log in via Firebase authentication.

### **2. SignupScreen**

- Users can sign up, with their details being stored in Firebase.

### **3. HomeScreen**

- Users can add, edit, delete, and view tasks.

### **4. LeaderBoard**

- Displays the number of tasks completed by each user. Users can filter the leaderboard based on daily, weekly, and monthly task completions.

## ***Firebase Integration***

Authentication: Used for user login and registration.

Firestore: Used for storing task data.

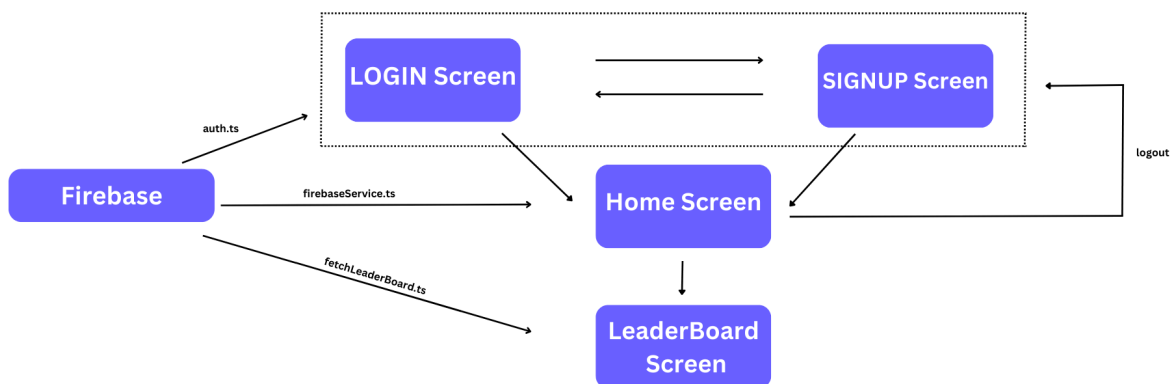
Firebase Storage: Used for uploading and storing images.

## ***Additional Features***

- Leaderboard Filtering: Users can view the leaderboard with filters for different time periods.
- Security: Sensitive information such as Firebase keys is securely stored in the ``.env`` file.

## File Structure

```
project-root/
├── .env
├── assets/
│   └── ... (assets files such as images, icons, etc.)
└── src/
    ├── screens/
    │   ├── LoginScreen.js
    │   ├── SignupScreen.js
    │   ├── HomeScreen.js
    │   └── LeaderBoard.js
    ├── components/
    │   └── ... (reusable components)
    ├── navigation/
    │   └── ... (navigation configuration)
    ├── services/
    │   └── ... (Firebase and other service integrations)
```



This documentation provides a high-level overview of the Task Manager project, detailing its main features, structure, and setup instructions. For more detailed information, refer to the inline comments and additional documentation within the codebase.