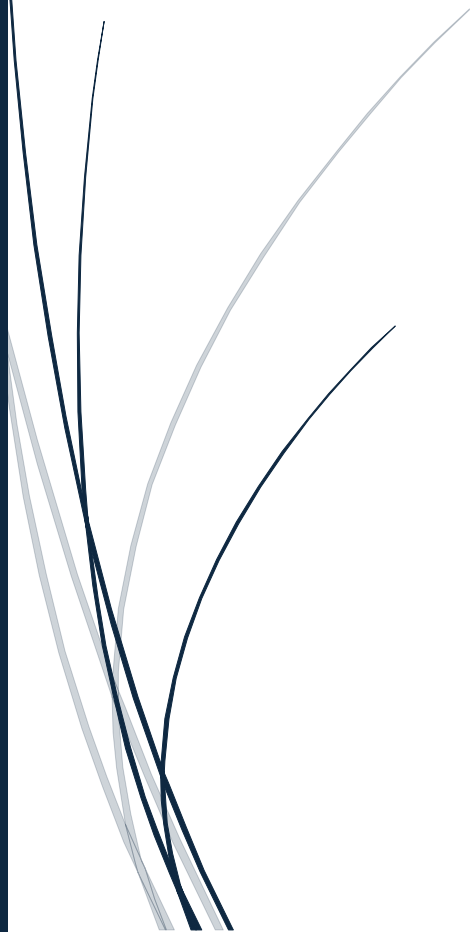


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OPSC7311

POE FINAL README



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Alpha Time Tracking App



Overview:

Alpha Time Tracking is a mobile application designed to help users track their time spent on various tasks and activities. It allows users to create tasks, set start and end times, and categorize tasks for better organization. Additionally, the app provides insights into the total number of hours spent on each category during a user-selectable period.

Features:

Task Management: Users can create tasks.

Time Tracking: Start and end times are recorded for each task to track the duration.

Category Categorisation: Tasks can be categorized into different categories for better organization.

Total Hours Calculation: The app calculates and displays the total number of hours spent on each category during a user-selectable period.

User-Friendly Interface: The app features a user-friendly and appropriate user interface to enhance user experience.

Error Handling: The app can handle invalid inputs made by the user without crashing.

Minor Bugs: The app is functional with only minor bugs and errors.

Share: Users can share timesheet entries.

Graph visual aid: Users have access to a graph to keep track of their goals in a bar chart.

About page: Users have access to an about page tutorial.

Functional Requirements:

1. **User Authentication:** Users should be able to sign up, log in, and log out securely to access the app.
2. **Time Tracking:** Users can create for different tasks or activities.

3. Category Management: Users can categorize their time tracking entries into different categories (e.g., work, study, personal).
4. Date and Time Selection: Users can select start and end dates and times for each time tracking entry.

Updated (POE)

5. Users can input min and max goals for a visual representation of their daily goals.
6. Users can share information on time sheet to external applications.
7. About page feature implemented to guide users on what the application does.

Non-Functional Requirements:

1. Usability: The app should have an intuitive and user-friendly interface to facilitate easy navigation and use.
2. Performance: The app should load quickly and respond promptly to user interactions, even with a large amount of data.
3. Reliability: The app should be stable and reliable, minimizing crashes, errors, and data loss.
4. Security: User data should be encrypted and securely stored to protect against unauthorized access and data breaches.
5. Compatibility: The app should be compatible with a wide range of Android devices and screen sizes.

User Prerequisites:

Android Device: Users should have an Android device running on a compatible version of the Android operating system.

Internet Connection: Access to a stable internet connection for signing up, logging in, and synchronizing data with the server.

Basic Smartphone Skills: Users should be comfortable using smartphones and navigating through mobile applications.

Data Privacy Awareness: Awareness of data privacy and security best practices to safeguard personal information within the app.

Regular Time Tracking: Willingness to track and manage time spent on different tasks or activities using the app.

Adherence to App Guidelines: Users should follow app guidelines and policies to ensure smooth and secure usage.

Demo Video:

Please refer to the demonstration video for a detailed walkthrough of the app's features including the two additional features of my own. The video includes a voiceover explaining each feature and demonstrates how to use the app effectively.

(Included in zipped folder, recorded on a mobile device via the Application APK)

Installation:

To install the Alpha Time Tracking app, follow these steps:

Download the APK file from the releases page.

Enable installation from unknown sources in your device settings.

Open the APK file and follow the on-screen instructions to install the app.

Minimum Device Requirements:

Android Version: Android 5.0 (Lollipop) or higher

RAM: 2GB or more

Storage: 50MB free space

Maximum Device Requirements:

Android Version: Any

RAM: No specific requirement

Storage: No specific requirement

Built With:

Android Studio & Firebase

Feedback and Support:

If you encounter any issues or have any feedback regarding the Alpha Time Tracking app, please feel free to contact us. We are dedicated to improving the app and providing support to our users. Contact us at ST10084812.vconnect.edu.za

Code Attribution:

(Software/framework)

```
implementation 'androidx.core:core-ktx:1.7.0'  
implementation 'androidx.appcompat:appcompat:1.6.1'  
implementation 'com.google.android.material:material:1.11.0'  
implementation 'androidx.constraintlayout:constraintlayout:2.1.4'  
implementation 'com.google.firebase:firebase-auth:22.3.1'  
implementation 'com.google.firebase:firebase-firestore-ktx:24.11.1'  
implementation 'com.google.firebase:firebase-database:20.3.1'  
implementation 'com.google.firebase:firebase-storage-ktx:20.3.0'  
implementation 'com.github.bumptech.glide:glide:4.12.0'  
testImplementation 'junit:junit:4.13.2'  
androidTestImplementation 'androidx.test.ext:junit:1.1.5'  
androidTestImplementation 'androidx.test.espresso:espresso-core:3.5.1'  
implementation 'com.github.PhiJay:MPAndroidChart:v3.1.0' // Added this line for  
MPAndroidChart  
annotationProcessor 'com.github.bumptech.glide:compiler:4.12.0'
```

References:

[https://www.globallogic.com/insights/blogs/nonfunctional-requirements-nfr-mobile-app-development/#:~:text=Non%2Dfunctional%20requirements%20\(NFR\),perform%20and%20met%20user%20expectations.](https://www.globallogic.com/insights/blogs/nonfunctional-requirements-nfr-mobile-app-development/#:~:text=Non%2Dfunctional%20requirements%20(NFR),perform%20and%20met%20user%20expectations.)

<https://www.w3schools.com/>

<https://youtu.be/H2potb8pGDQ?si=rs7azdkV4xT3M4sF>

https://youtu.be/QAKq8UBv4GI?si=UhY2PAiRo-Bd_rsF

<https://youtu.be/DWIGAkYkpg8?si=EcADl1KPC89uDCOt>