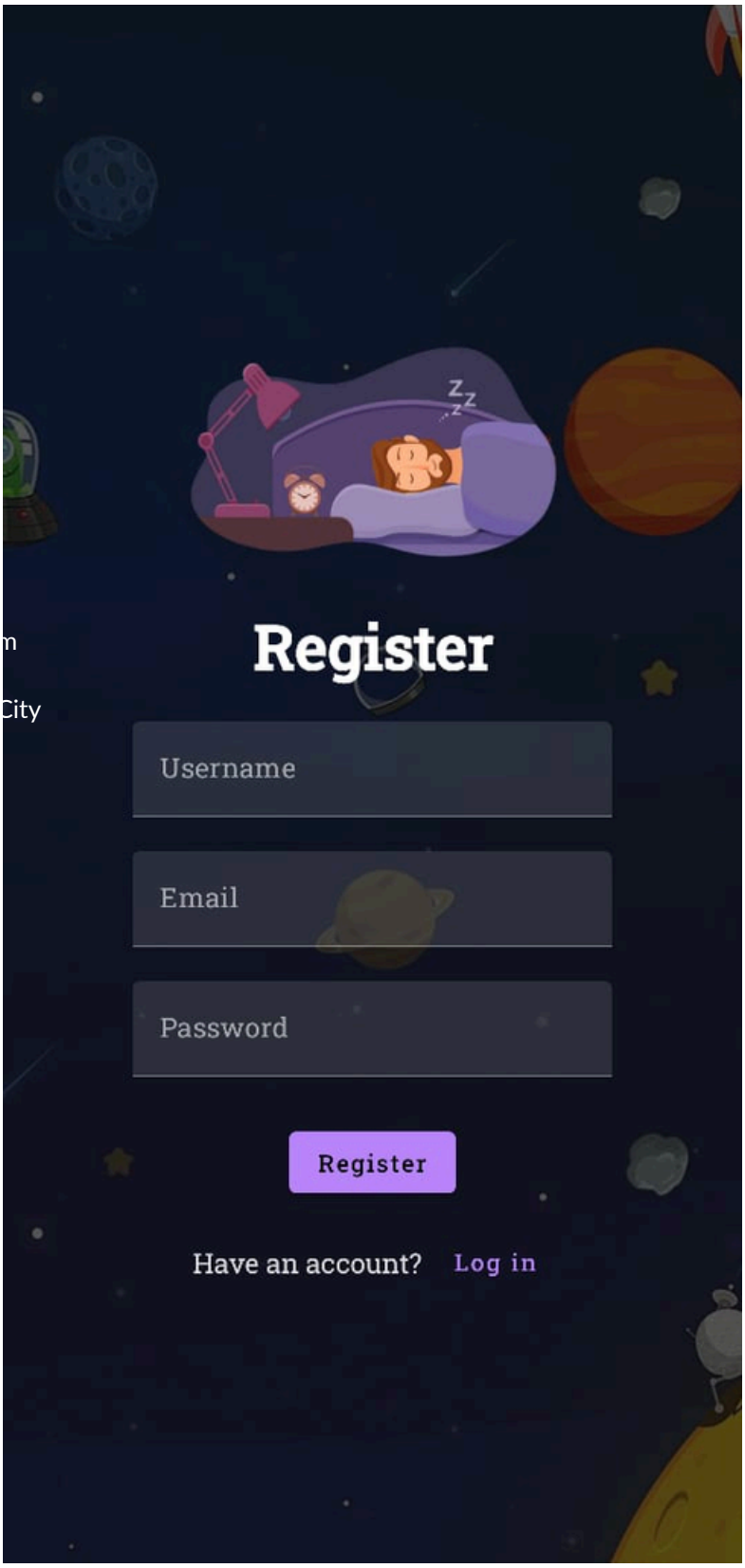
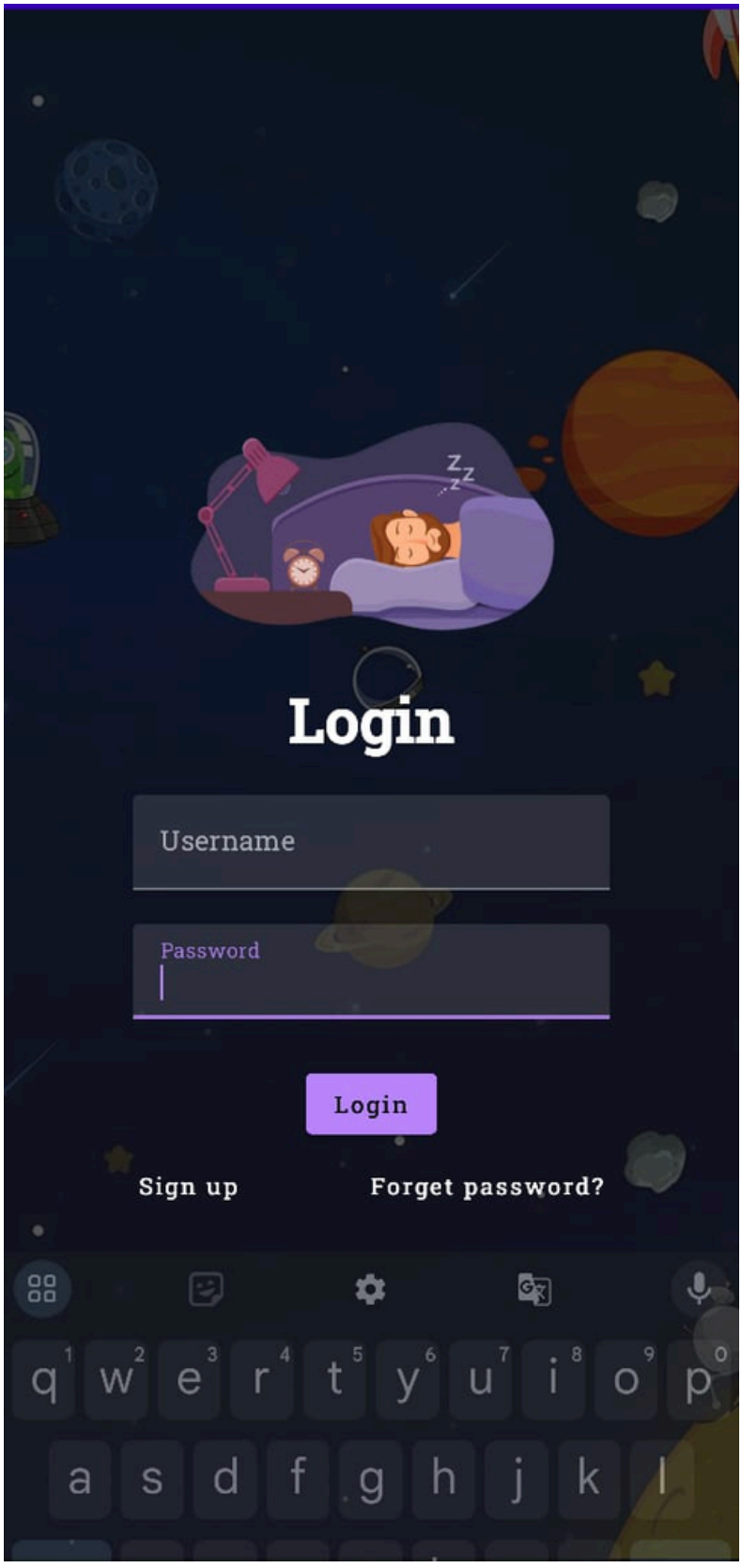
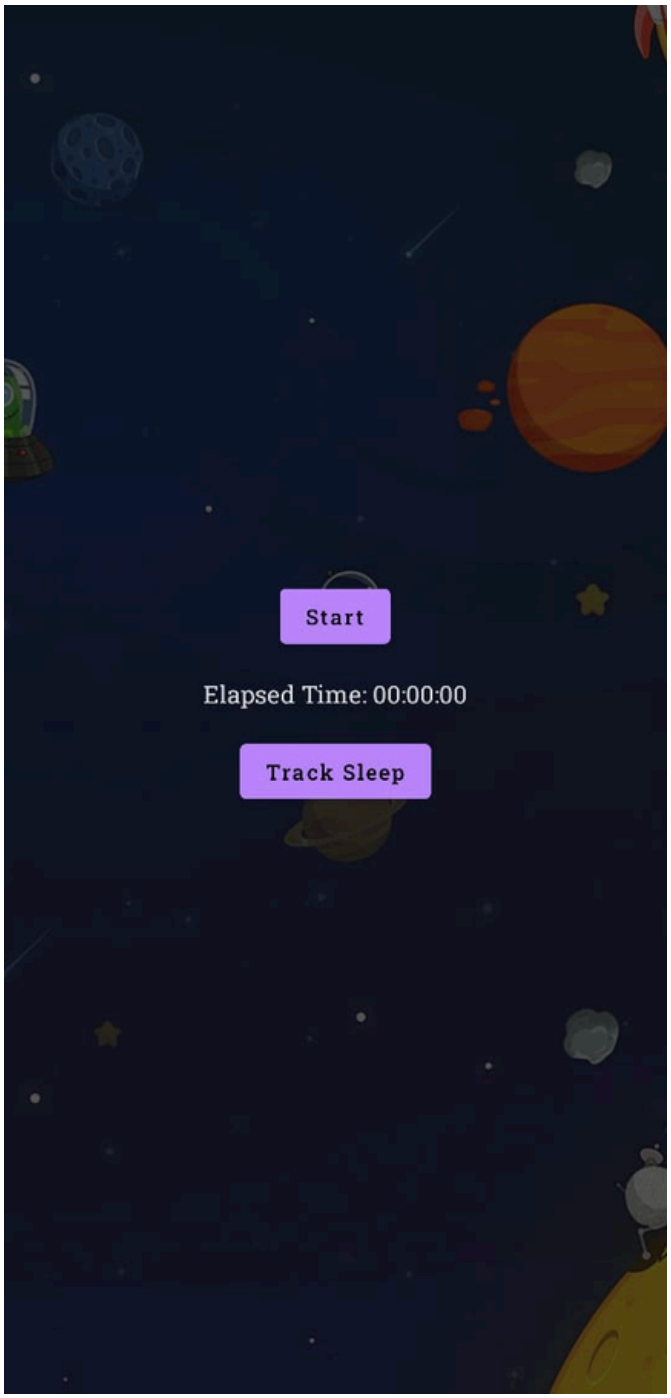


SIGN IN WINDOW FOR NEW USER

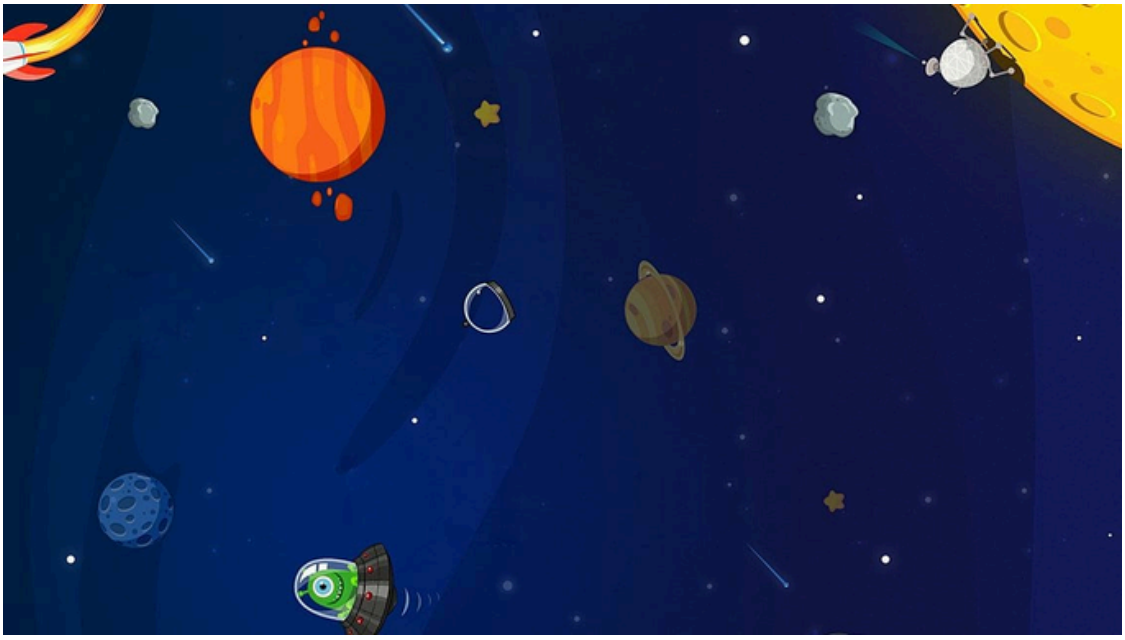


SIGN UP WINDOW FOR USER WHO ALREADY HAVE SIGN IN IN OUR APPLICATION

LOGO OF OUR APPLICATION SLEEP TRACKER



USER INTERFACE WHEN WE START THE APPLICATION SLEEP TRACKER



BACKGROUND IMAGES THAT ARE USED IN OUR APPLICATION SLEP TRACKER

```
val task = ActivityRecognition.getClie
    .requestSleepSegmentUpdates(
        pendingIntent,
        SleepSegmentRequest.getDefaultS
    .addOnSuccessListener {
        viewModel.updateSubscribedToSle
        Log.d(TAG, "Successfully subscr
    }
    .addOnFailureListener { exception -
        Log.d(TAG, "Exception when subs
    }
```

Learn more about the Sleep API

Receive a daily summary of sleep time

Your app can retrieve information about sleep time from the daily sleep segment update event.

Each sleep segment event contains information about whether the API detected sleep or could detect sleep. The segment event also includes the times when the user most likely fell asleep and woke up, based on available sensor data.

Stay updated on the likelihood that the user is asleep

```
buildscript {
    repositories {
        google()
        mavenCentral()
    }
}

allprojects {
    repositories {
        google()
        mavenCentral()
    }
}
```

Add the Google Play services dependency for the Sleep API to your module's Gradle build file, which is commonly `app/build.gradle`:

```
dependencies {
    implementation 'com.google.android.
}
```

Add the ACTIVITY_RECOGNITION permission to your `AndroidManifest.xml` tag with `android:name="android.permission.ACTIVITY_RECOGNITION"`.

duration. Users can add, edit, or remove any sleep entries.

Requirements

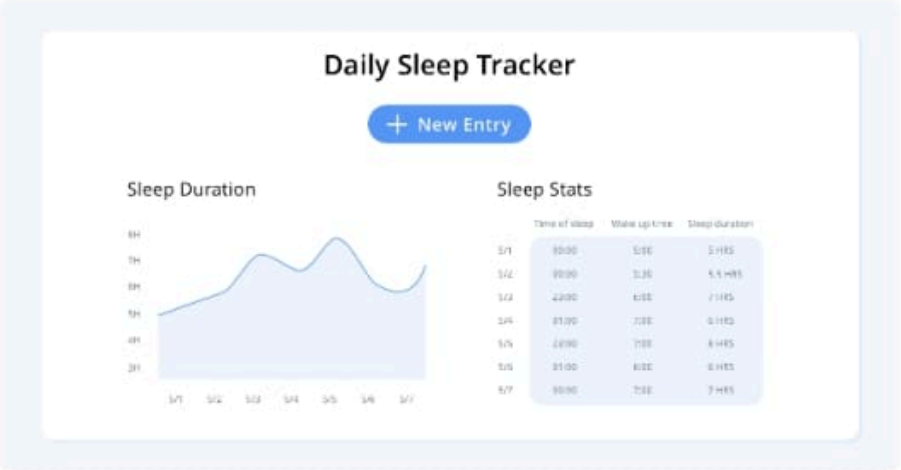
Front-end & UI Design

- Splash Screen: When a user is not logged in, show the homepage with an introduction of the app and how it can help users track their sleep better.
- Signup page: Use Google or Facebook libraries or implement your own authentication module.
- Login page: a user should be able to login to the account using their signup method.
- New user login: show an empty page with the "New entry" button. Once the user clicks "New entry," show a modal dialogue/popup:
  - Select date using date picker
  - Select sleep time in hour and minutes
  - Select wakeup time in hour and minutes
  - Calculate total sleep duration
  - Include reset, cancel, and submit buttons

Use databases and Rest APIs to fetch the data.

- Write backend APIs to read, write, and update entries.

The following image shows one way to implement the UI. Feel free to interpret the requirements however you'd like!



Extra challenge: Add more visualization for weekly and monthly analysis

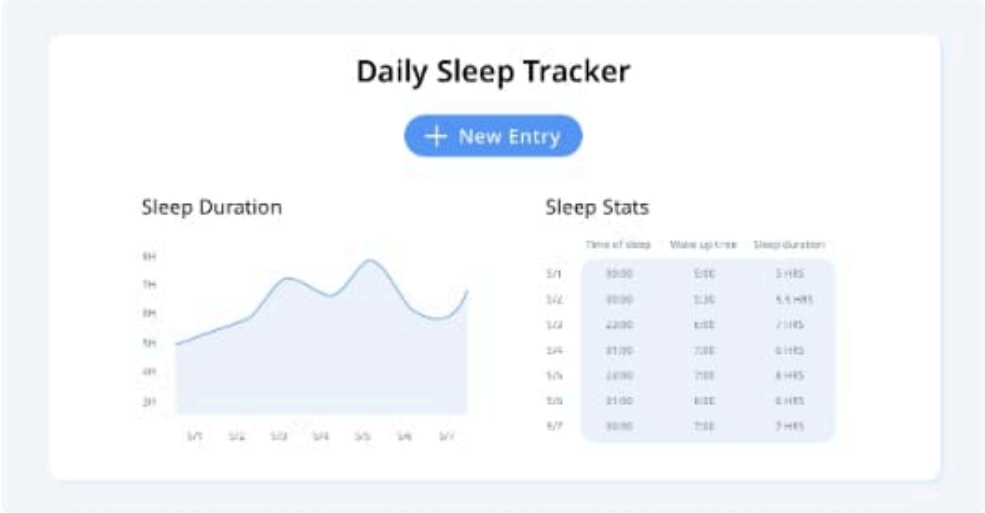
- Average sleep duration for the week
- Number of days the user slept less than 6 hours
- Number of days the user slept more than 8 hours
- Average sleep and wake up time

Suggested Implementation

Use databases and Rest APIs to fetch the data.

- Write backend APIs to read, write, and update entries.

The following image shows one way to implement the UI. Feel free to interpret the requirements however you'd like!



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Suggested Implementation