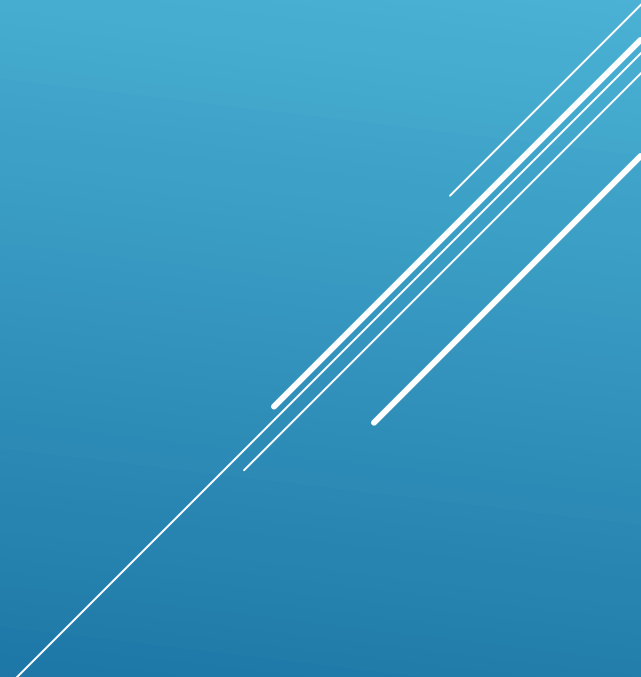


A SLEEP TRACKING APP FOR A BETTER NIGHT'S REST

PRESENTED BY :
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MUTHUPANDIYAN K

PROJECT OVERVIEW :

Sleep Track is a mobile application designed to help users monitor and improve their sleep quality through personalized insights and recommendations. By tracking sleep patterns, providing educational resources, and offering tools for relaxation, SleepTrack aims to empower users to achieve restorative sleep and enhance their overall well-being.

Several thin, white, parallel lines of varying lengths and angles are positioned on the right side of the slide, creating a modern, abstract graphic element.

OBJECTIVES :

- ▶ **Track Sleep Patterns:** Allow users to log their sleep duration, quality, and any disturbances.
- ▶ **Analyze Sleep Data:** Use algorithms to analyze sleep trends and provide insights into users' sleep habits.
- ▶ **Personalized Recommendations:** Offer tailored advice for improving sleep based on individual data.
- ▶ **Educational Resources:** Provide articles, tips, and videos on sleep hygiene and relaxation techniques.
- ▶ **Integration with Wearables:** Sync with wearable devices (like smartwatches and fitness trackers) for automatic sleep tracking.

KEY FEATURES :

- ▶ **User Profiles:** Users can create profiles to log sleep data, set sleep goals, and track progress over time.
- ▶ **Sleep Journal:** A feature that allows users to record their sleep experiences, including pre-sleep activities, stress levels, and caffeine intake.
- ▶ **Sleep Analysis:** Visualizations of sleep patterns over time, including duration, quality, and disturbances.
- ▶ **Relaxation Tools:** Guided meditations, calming music, and breathing exercises to help users wind down before sleep.

- **Smart Alarm:** An intelligent alarm that wakes users during light sleep phases for a more refreshing experience.
- **Community Forum:** A space for users to share experiences, tips, and support with each other.
- **Reminders & Notifications:** Gentle nudges to maintain a consistent sleep schedule and healthy sleep habits.
- Target Audience
- **General Public:** Individuals looking to improve their sleep quality and overall health.
- **Students:** Those managing busy schedules and seeking effective sleep strategies.
- **Professionals:** Individuals with demanding jobs who may experience sleep disturbances.

CODE :

```
package com.example.projectone
```

```
import android.content.Context
```

```
import androidx.room.Database
```

```
import androidx.room.Room
```

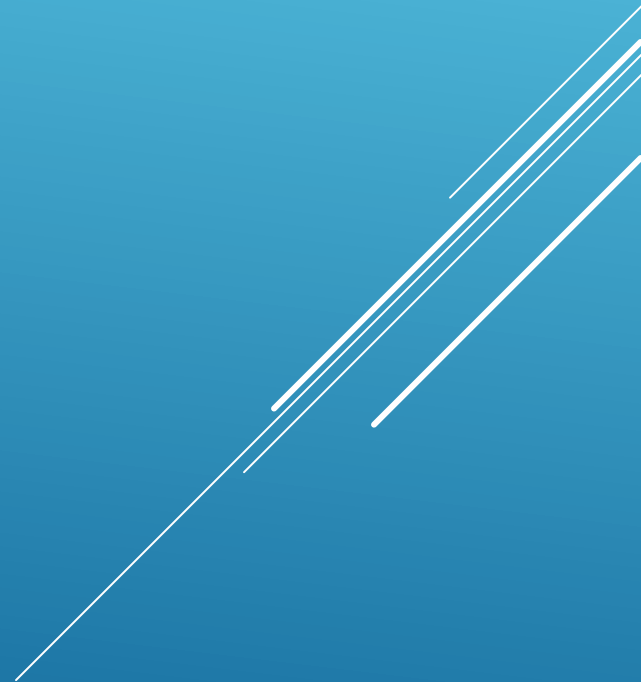
```
import androidx.room.RoomDatabase
```

```
@Database(entities = [TimeLog::class], version = 1, exportSchema =  
false)
```

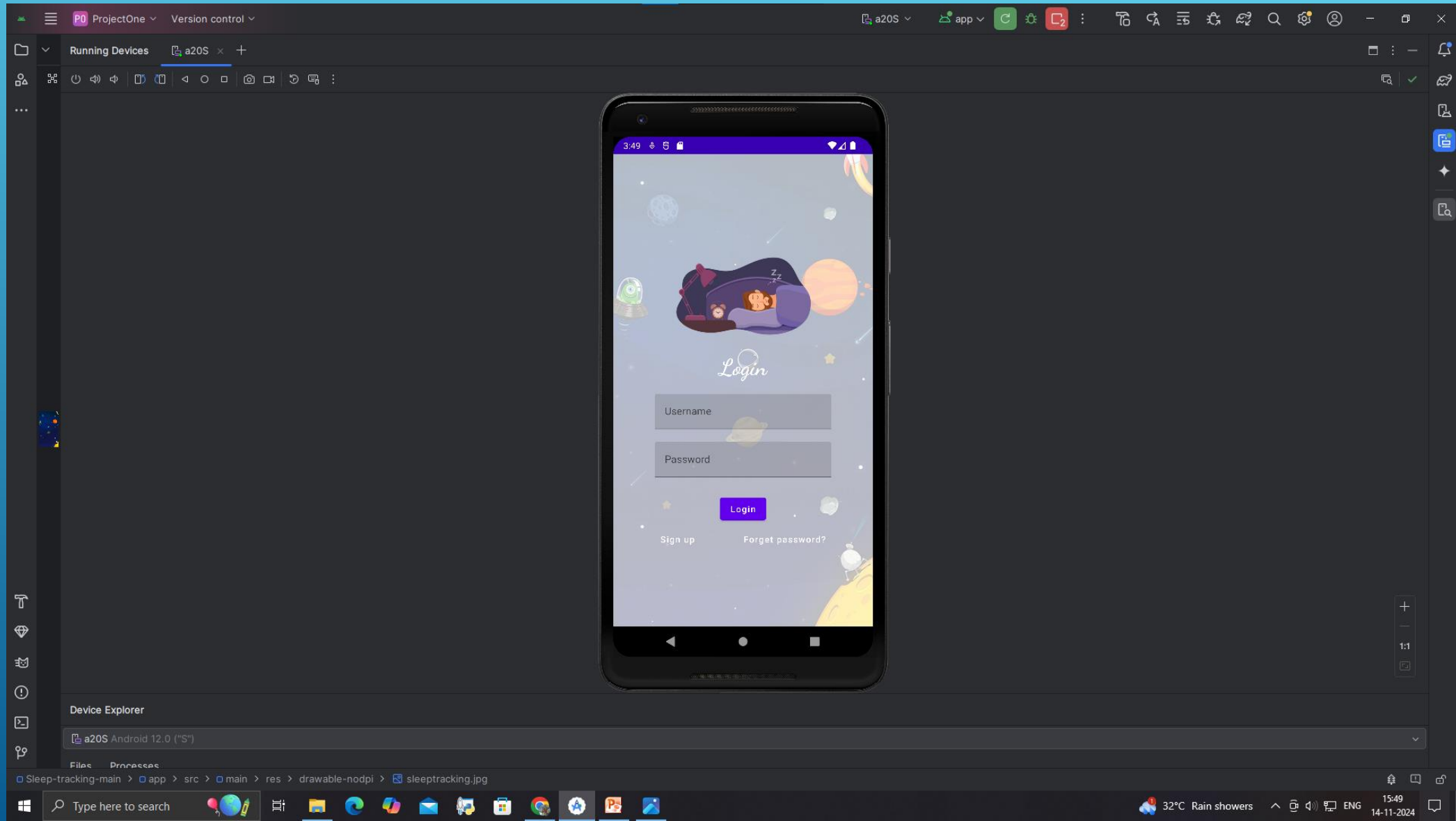
```
abstract class AppDatabase : RoomDatabase() {
```

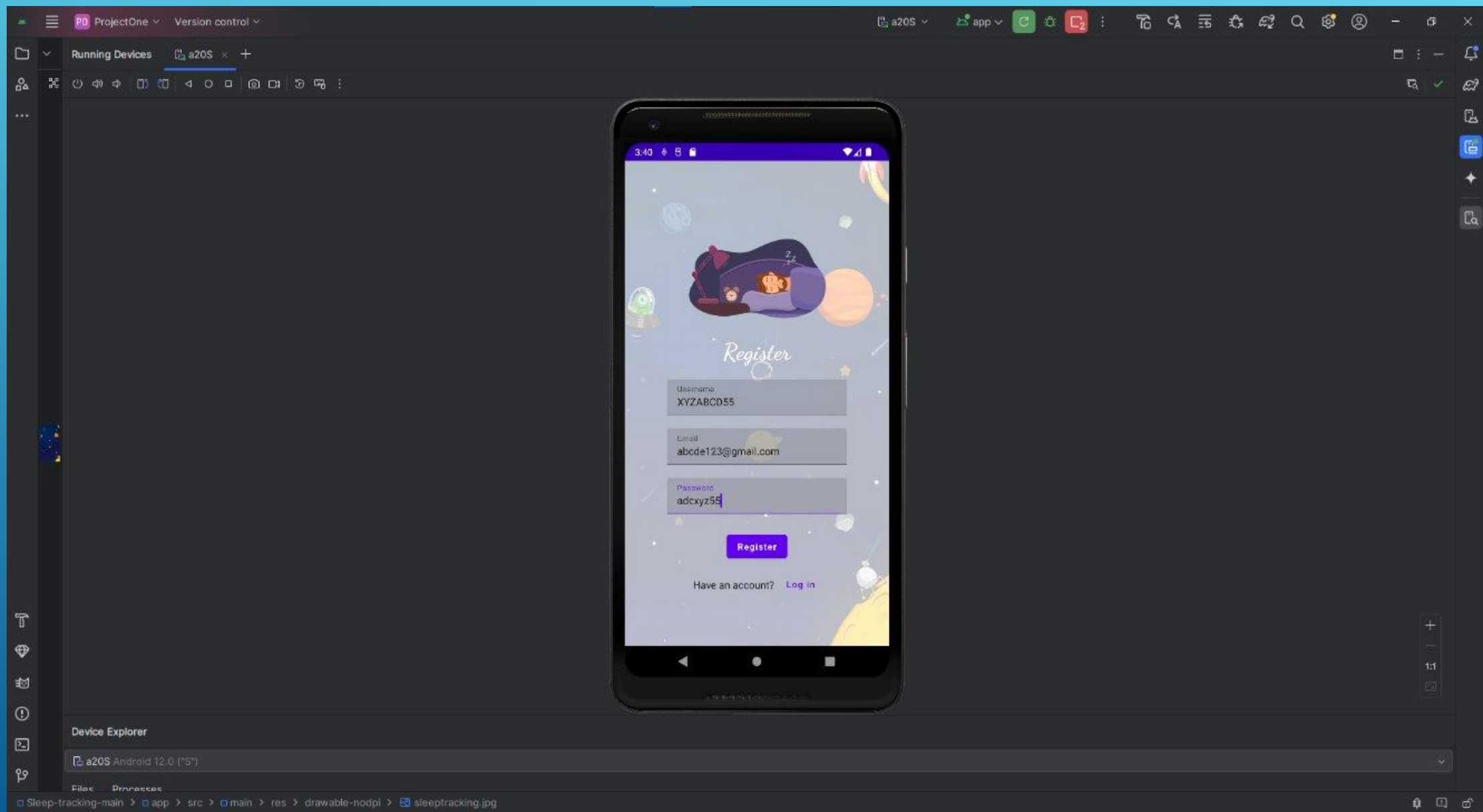
```
    abstract fun timeLogDao(): TimeLogDao
```

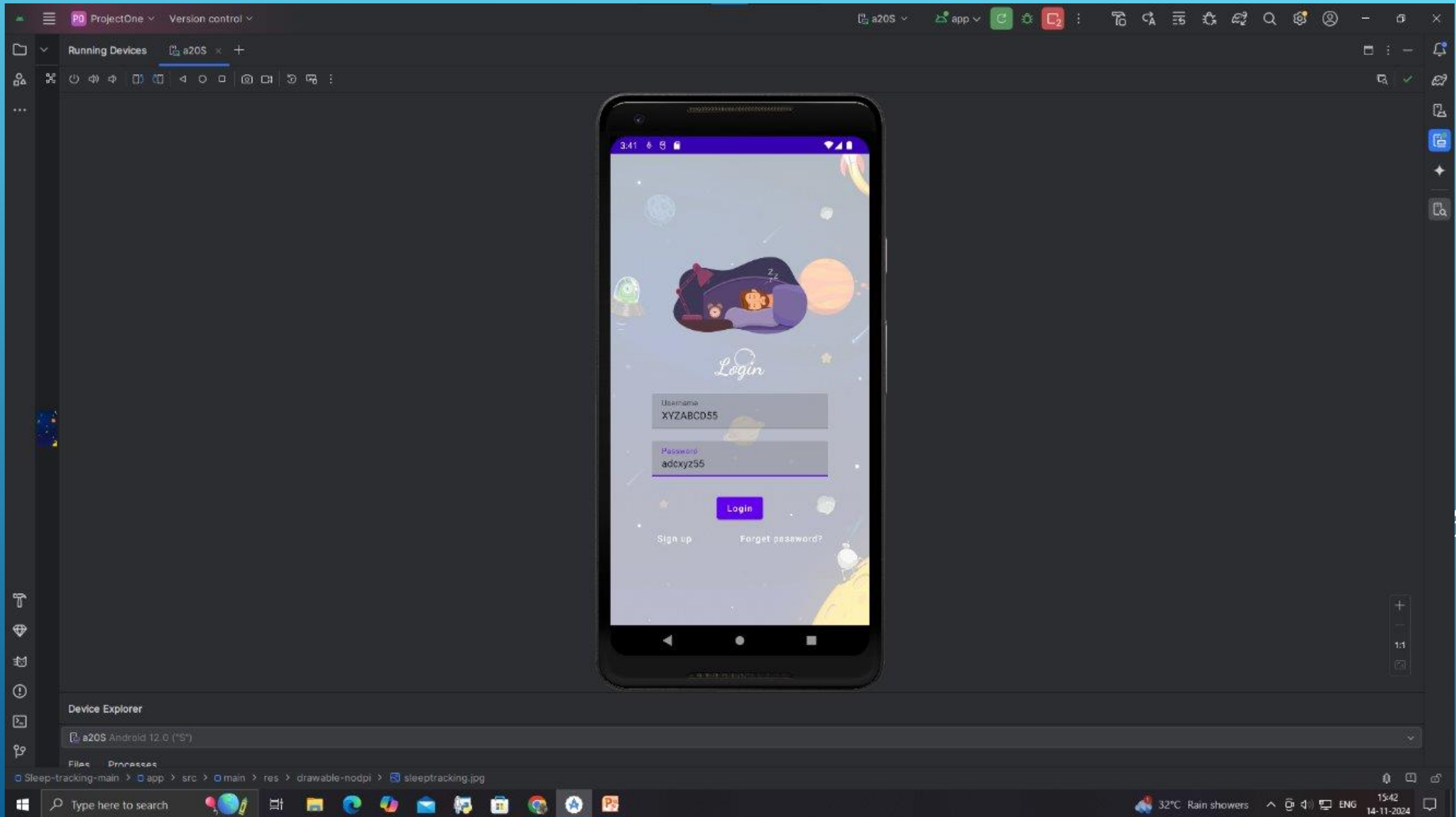
```
companion object {  
    private var INSTANCE: AppDatabase? = null  
  
    fun getDatabase(context: Context):  
AppDatabase {  
        val tempInstance = INSTANCE  
        if (tempInstance != null) {  
            return tempInstance  
        }  
        synchronized(this) {  
            val instance = Room.databaseBuilder(  
                context.applicationContext,  
                AppDatabase::class.java,  
                "app_database"  
            ).build()  
            INSTANCE = instance  
            return instance  
        }  
    }  
}
```



OUTPUT :







ProjectOne

Version control

a20S app

Running Devices

a20S

3:53

Start

Elapsed Time: 00:00:00

Track Sleep

Device Explorer

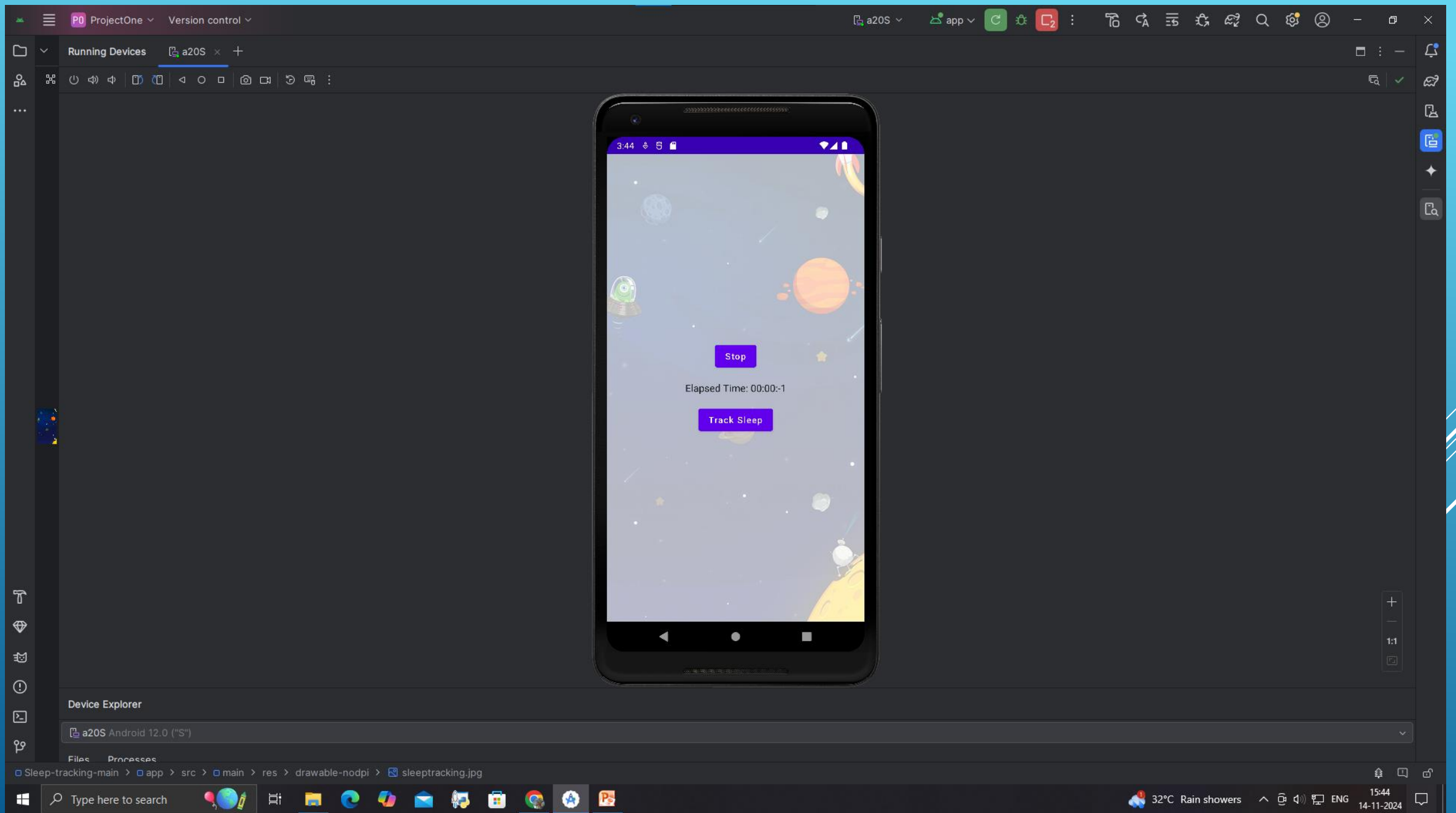
a20S Android 12.0 ("S")

Sleep-tracking-main > app > src > main > res > drawable-nodpi > sleeptracking.jpg

Type here to search

32°C Rain showers

15:53 14-11-2024





DEMO VIDEO :

