**Automated Life App**

B.Tech (CE) Sem-VII

**Submitted by**

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**1. Introduction**

This system is intended for users to automate their life . This system will automate your life from the time you wake till you go to bed . This app will wake you up at morning with an alarm . It will switch you mobile’s profile according to your schedule. It will let you to set remainder nd save notes. At last when you go to bed it will provide you sleep mode.

**1.1 Purpose**

The purpose of this SRS for developers is that they can understand system from technical aspects and can build the entire system correctly. It will explain the purpose and feature of the system, the interfaces of the system, what the system will do and the constraint under which it must operate. Developers can easily track their mistakes by referring to this SRS if their are any . Customers can refer to the SRS and can understand the system functions and can give any modification if their are any .

**1.2 Scope**

* The system will switch the phone’s profile from normal to vibrate nd vice versa according to your daily schedule.
* The system will provide one hybrid type of alarm clock which will turn off only if you solve one maths equation.
* The system will provide user to save their notes and set the remainders.
* The system will provide sleep mode .

**1.3 Definition,Acronyms,Abbreviations**

* Vibrate manager : manages your phone vibrate mode
* UI : user interface

**1.4 References**

Alarmy android application .

Sleep mode android application.

Notes app.

Remainder app.

**1.5 Overview**

Section 2 contains the overall description part which describes the what hardware and software interface is required and which are the constrains.

Section 3 contains the external interfaces and which are the functions and design constrain.

**2. The General Description**

**2.1 Product Perspective**

**2.1.1 System Interfaces**

This system doesn't uses any Interface API.

**2.1.3 Hardware Interfaces**

This system doesn't require any hardware interface .

**2.1.4 Software Interfaces**

This system is developed using Android Studio,SQLite.

**2.1.5 Communication Interfaces**

This system is an android application through which user can upload their settings . The user communicates with the application using its UI .

**2.1.6 Memory Constrains**

The system will require minimum 128mb RAM and Android 2.3 or higher OS.

**2.1.7 Operation**

System supports only one types of user mode

1) User Mode

User can interact with the application .

No admin mode available

**2.1.8 Site Adaption Requirements**

To use the system on a user's machine we will require an Android phone.

**2.2 Product Functions**

The system will switch the phone’s profile from normal to vibrate nd vice versa according to your daily schedule. For eg. Your college timings are from 8:30AM to 3:30PM so this app will turn your phone at 8:30AM to vibrate mode and at 3:30PM it will again switch back to normal mode.

The system will provide one hybrid type of alarm clock which will turn off only if you solve one maths equation at the time you wake up.

The system will provide user to save their notes and set the remainders.

The system will provide sleep mode. Sleep mode will turn off your Wifi, Mobile data , Bluetooth and will also set your phone into Flight mode to protect you from radiations if you want. It will also have one function to make you fall asleep by hearing your fav music . It will automatically make music off once you fall asleep according to the timer set .

**2.3 User characteristic**

* User should have basic Android cell phone.
* User needs to download the app from Play Store to use it.
* User should know how to deal with Android application.

**2.4 Constrains**

To use this app user first needs to download it from playstore.

To change the phone profile from normal to vibrate and vice versa user needs to enter his/her daily schedule .

The user should have enough memory and RAM.

**2.5 Assumption and Dependency**

The system does not have any hardware dependency.

**2.6 Apportioning Requirement**

The system is divided into modules.

In first version user can set alarms and vibrate manager .

In second version the note and remainder is implemented.

In third version sleep mode is implemented

**3. Specific Requirement**

**3.1 Function**

R1 : System provides facility to switch phone’s profile .

R1.1 : System allow to enter your daily schedule.

input: user details

process: creating schedule

output: display the schedule .

R1.2 : System will automatic turn your phone from normal mode to vibrate mode .

Input: time

process: turn on vibrate mode

output: show message

R1.3 : System will automatic turn your phone from vibrate mode to normal mode .

Input: time

process: turn on normal mode

output: show message

R2 : System provides facility to set alarms.

R2.1 : System allow to add new alarm.

input: user details

process: creating alarm

output: display the alarm details .

R2.2 : System allow to ring the alarm on time you set.

Input: day and time

process: ring alarm

output: show an alarm screen

R2.3 : System allow to turn off the alarm by solving one maths equation.

Input: equation ans

process: check ans

output: turn off alarm or prompt error

R3 : System provides facility to set remainders.

R3.1 : System allow you to add new remainder.

input: user details

process: creating remainder

output: display the remainder details .

R3.2 : System allow to prompt the notification as a remaiinder on date and time you set.

Input: date and time

process: create notification

output: prompt notification

R4 : System provides facility to add Notes.

R3.1 : System allow you to add new note.

input: user details

process: creating note

output: display the note details .

R3.2 : System allow to edit and delete the note.

Input: user details.

process: edit or delete note

output: display message

R5 : System provide facility to turn on/off the sleep mode.

R5.1: System provide facility to turn off wifi

Input: active sleep mode

Process: turn off wifi

Output: none

R5.2: System provide facility to turn off mobile data

Input: active sleep mode

Process: turn off mobile data

Output: none

R5.3: System provide facility to turn off bluetooth

Input: active sleep mode

Process: turn off bluetooth

Output: none

R5.3: System provide facility to force stop useless apps

Input: active sleep mode

Process: force stop useless apps

Output: none

**KEY CONCEPT LEARNT**

**Alarm Manager class** : We were not knowing that how we can perform any task if our application is closed.

So through Alarm Manager class and Broadcast receiver it can be possible .

Another way is to make service .

**Notification service** : We learnt how to handle with notifications . How to create it and display it .

Yet more to come . Still faced with this things only.