



FACULTY OF COMPUTING

IT2010 – Mobile Application Development

BSc (Hons) in Information Technology

2nd Year

Faculty of Computing

SLIIT

2025 – Lab Exam 03

Report

Student ID	IT23658240
Batch	Kandy Uni
Marking Guide	
1. Functionality: How well the core and bonus features are implemented	3
2. Creativity & User Interface Design: Clean and intuitive UI/UX design	2
3. Code-Quality & Organization: Code is well-organized & documented	2
4. Advanced Features & Data Persistence: Usage of SharedPref's with one of the advanced features	3
Total Marks	10
Evaluator	

Description:

1. Introduction

In today's fast-paced world, maintaining personal wellness and mental balance is a growing challenge. The Bloomify mobile application is designed to promote self-growth, mindfulness, and healthy living through consistent daily practices. The app integrates features for habit tracking, mood journaling, and hydration reminders, enabling users to monitor and improve their physical and emotional well-being effectively.

2. Objective

The main objective of Bloomify is to provide a simple yet powerful self-care platform that encourages users to develop healthy routines, understand their emotional patterns, and stay hydrated. The application focuses on helping users grow through small, consistent actions that contribute to overall wellness.

3. System Overview

Bloomify is a wellness management mobile application that allows users to:

- Track their daily habits and monitor completion progress.
- Record and visualize mood trends over time.

- Receive timely reminders for hydration.
- View insightful charts to analyze their emotional well-being.

The system is developed with an emphasis on user engagement, data persistence, and responsive interface design, ensuring a seamless and personalized user experience.

4. Functional Requirements

4.1 Daily Habit Tracker

- Users can add, edit, and delete daily wellness habits such as *drinking water, exercising, or meditating*.
- The app displays daily completion progress using progress indicators.
- It encourages users to maintain consistency through a clean and interactive interface.

4.2 Mood Journal with Emoji Selector

- Users can log their daily moods using expressive emoji icons.
- Each entry records the date and time for accurate tracking.
- A list or calendar view allows users to review and reflect on their mood history.

4.3 Hydration Reminder

- The app uses AlarmManager or WorkManager to send periodic notifications reminding users to drink water.
- Users can set custom reminder intervals according to personal preferences.

4.4 Advanced Feature – Mood Trend Chart

- The application integrates MPAndroidChart to display a simple chart showing weekly mood trends.
- This feature helps users visualize emotional fluctuations and track improvements in mental well-being.

Screenshots:

Dialog 4G 4G A ⚡ 📲

48% 21:41



Bloomify

Your Personal Wellness Companion



Welcome Back!

Login to continue your wellness journey

Email

Password



Login

Don't have an account? [Sign Up](#)



Create Account

Start your wellness journey today

Full Name

Email

Password



Confirm Password



Sign Up

Already have an account? [Login](#)

Daily Habits

Today's Progress: 0/4 completed (0%)



Drink 8 glasses of water



Meditate for 10 minutes



Exercise for 30 minutes



Read for 20 minutes



Habits



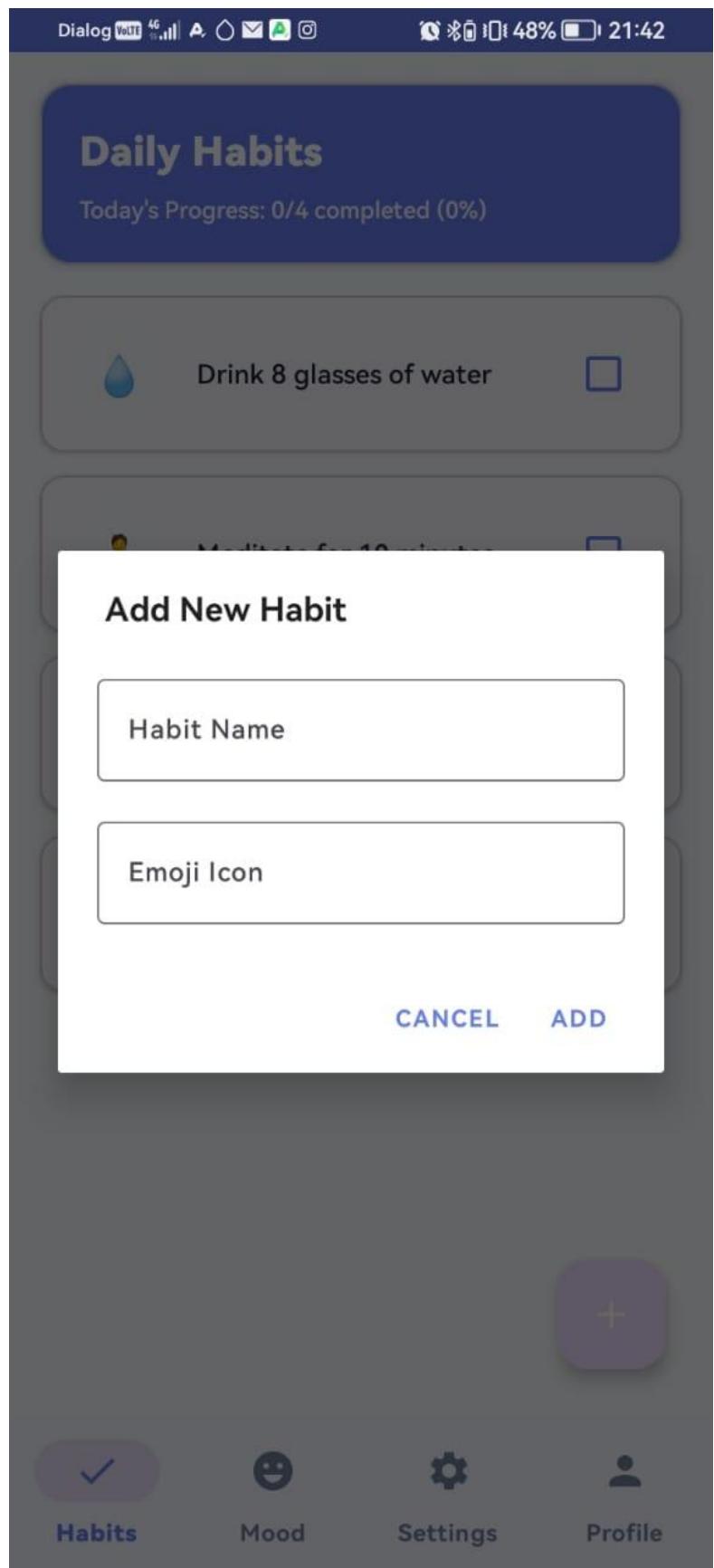
Mood



Settings



Profile



Mood Journal

Track your emotional wellness

Show Mood Trend

Share Summary

Calm



Oct 09, 2025 09:02

Calm



Oct 09, 2025 07:35

Anxious



Oct 09, 2025 07:35

Neutral



Oct 09, 2025 07:34

Neutral



Oct 05, 2025 19:48



Habits



Mood



Settings



Profile

How are you feeling?

Select your mood



Happy



Excited



Calm



Neutral



Sad



Anxious



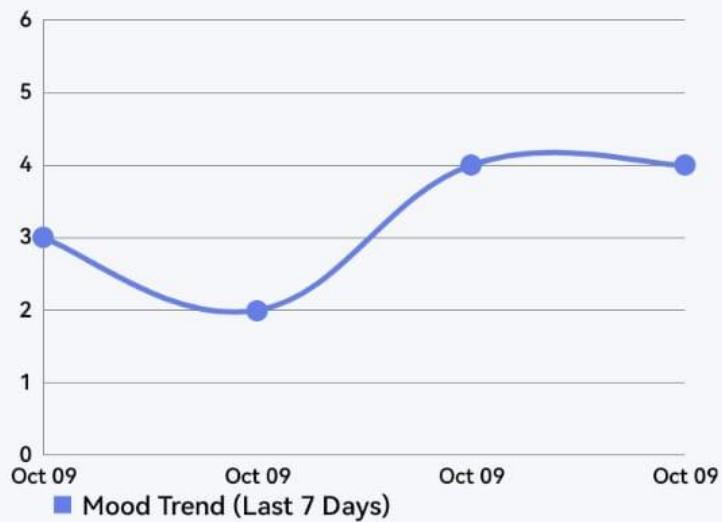
Angry

Add a note (optional)

CANCEL SAVE

Mood Journal

Track your emotional wellness

[Hide Chart](#)[Share Summary](#)

Calm



Oct 09, 2025 09:02

Calm



Oct 09, 2025 07:35



Anxious



Oct 09, 2025 07:35

[Habits](#)[Mood](#)[Settings](#)[Profile](#)

Settings

💧 Hydration Reminders

Get reminded to drink water regularly

Enable Reminders



Reminder Interval

2 hours

1h

8h

ℹ️ About

Bloomify v1.0

Your personal wellness companion



Habits



Mood



Settings



Profile

Dialog 4G 48% 21:41



Maneesha
maneeshakarunarathne2002@gmail.com
Member since October 07, 2025

 **Your Statistics**



4 habits tracked
Tracked



12 mood entries logged
Logged

 **Logout**

 **Habits**

 **Mood**

 **Settings**

 **Profile**

Content of xml files of Strings and Colors:

Strings

```
1   <?xml version="1.0" encoding="utf-8"?>
2   <resources>
3     <string name="app_name">Bloomify</string>
4
5     <!-- Navigation -->
6     <string name="nav_habits">Habits</string>
7     <string name="nav_mood">Mood</string>
8     <string name="nav_settings">Settings</string>
9     <string name="nav_profile">Profile</string>
10
11    <!-- Onboarding -->
12    <string name="onboarding_title_1">Track Your Habits</string>
13    <string name="onboarding_desc_1">Build healthy routines and track your daily progress</string>
14    <string name="onboarding_title_2">Log Your Mood</string>
15    <string name="onboarding_desc_2">Keep a journal of your emotions and see patterns over time</string>
16    <string name="onboarding_title_3">Stay Hydrated</string>
17    <string name="onboarding_desc_3">Get reminders to drink water throughout the day</string>
18
19    <!-- Habits -->
20    <string name="habit_add">Add Habit</string>
21    <string name="habit_edit">Edit Habit</string>
22    <string name="habit_delete">Delete Habit</string>
23    <string name="habit_complete">Mark as Complete</string>
24
25    <!-- Mood -->
26    <string name="mood_add">Log Mood</string>
27    <string name="mood_select">How are you feeling?</string>
28    <string name="mood_note">Add a note (optional)</string>
29
30    <!-- Settings -->
31    <string name="settings_hydration">Hydration Reminders</string>
32    <string name="settings_interval">Reminder Interval</string>
33    <string name="settings_notifications">Enable Notifications</string>
```

```
30    <!-- Settings -->
31    <string name="settings_hydration">Hydration Reminders</string>
32    <string name="settings_interval">Reminder Interval</string>
33    <string name="settings_notifications">Enable Notifications</string>
34
35    <!-- Profile -->
36    <string name="profile_stats">Your Statistics</string>
37    <string name="profile_logout">Logout</string>
38
39    <!-- Widget -->
40    <string name="widget_name">Habit Progress</string>
41    <string name="widget_description">Shows today's habit completion percentage</string>
42
43    <!-- Notifications -->
44    <string name="notification_hydration_title">Time to Hydrate!</string>
45    <string name="notification_hydration_text">Remember to drink water and stay healthy</string>
46  </resources>
```

Colors

```
1      <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3      <color name="primary">#667eea</color>
4      <color name="primary_dark">#5568d3</color>
5      <color name="primary_light">#8799f5</color>
6      <color name="accent">#764ba2</color>
7      <color name="colorBackground">#FFFFFF</color>
8
9      <color name="background">#F5F7FA</color>
10     <color name="surface">#FFFFFF</color>
11
12    </resources>
13
```