Green University of Bangladesh

Department of Computer Science and Engineering (CSE)
Semester: (Spring, Year: 2025), B.Sc. in CSE (Day)

Daily Mood Journal with Emoji Analysis

Course Title: Web Programming Lab
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Contents

Chapter 1

Introduction

1.1   Overview

The Daily Mood Journal with Emoji Analysis is a web-based application designed to help users track their daily moods using emojis. The application allows users to log their emotions, analyze mood trends over time, and gain insights into their emotional well-being. The project leverages HTML, CSS, and JavaScript to create an interactive and user-friendly interface.

1.2   Motivation

In today's fast-paced world, mental health and emotional well-being are often over-looked, leading to stress, anxiety, and decreased productivity. Tracking daily moods helps individuals become more self-aware, recognize emotional patterns, and take proactive steps toward better mental health. However, traditional mood-tracking methods can feel tedious, making it difficult for users to stay consistent. This project leverages the simplicity of emojis to make mood tracking intuitive, engaging, and accessible to everyone. By integrating interactive data visualization, users can easily analyze their emotional trends over time, helping them make informed lifestyle adjustments. Additionally, privacy is a key focus, as all data is stored locally in the browser, ensuring a secure and hassle-free experience. Whether for personal self-reflection, therapy support, or wellness programs, this tool provides a practical and user-friendly solution to promote emotional awareness and mental well-being.These factors motivated us to work on this project [1].

1.3   Problem Definition

1.3.1   Problem Statement

The problem is to create a web application that allows users to log their daily moods using emojis, store this data, and provide visual analysis of mood trends over time.

1.3.2 Complex Engineering Problem

The following table is completed according to my above discussion in detail.

Table 1.1: Summary of the attributes touched by the mentioned projects

Name of the P Attributess	Explain how to address
P1: Depth of knowledge required	Requires expertise in front-end development, data visualization, and user interaction design.
P2: Range of conflicting requirements	Balances simplicity vs. detailed tracking and privacy vs. data persistence.
P3: Depth of analysis required	Analyzes mood trends using local storage data and visual charts.
P4: Familiarity of issues	Addresses user engagement, data privacy, usability, and accessibility challenges.
P5: Extent of applicable codes	Fully utilizes HTML, CSS, JavaScript for UI, storage, and interactivity.
P6: Extent of stakeholder involvement and conflicting requirements	Users may prefer quick mood logging or detailed journaling, requiring a flexible design.
P7: Interdependence	The app's UI, storage, and data visualization are tightly connected for a seamless experience.

1.4 Design Goals/Objectives

The primary goal of this project is to create a user-friendly and engaging platform for tracking daily moods using emojis. The interface should be intuitive and visually appealing, ensuring users can log their emotions effortlessly. To provide meaningful insights, the system will incorporate interactive data visualization techniques, such as charts and graphs, to display mood trends over time. Privacy is a key focus, with all data being stored locally in the browser to eliminate external dependencies and security concerns. Additionally, the project aims to maintain a lightweight and responsive design, making it accessible across different devices while ensuring a seamless user experience.

1.5 Application

The Daily Mood Journal with Emoji Analysis has diverse applications in mental health awareness, personal self-care, and emotional tracking. It provides individuals with an easy-to-use tool for self-monitoring, allowing them to log their moods daily and observe patterns over time. This can be particularly beneficial for those managing stress, anxiety, or depression, as it helps them recognize emotional triggers and track improvements in their well-being.

Beyond personal use, the application can be recommended by therapists and counselors as a self-reflection tool for clients undergoing therapy, providing insights into

emotional fluctuations. It can also be integrated into workplace wellness programs, enabling employees to track their mental well-being and identify stress patterns that may affect productivity. Additionally, educational institutions can use it to promote mental health awareness among students, encouraging them to develop emotional intelligence and self-awareness.

Since the project is web-based and lightweight, it can be accessed from any device without requiring software installation. This ensures convenience, privacy, and accessibility, making it a practical tool for anyone looking to gain a better understanding of their emotional health.

[1] also.

Chapter 2

Design/Development/Implementation of the Project

2.1 Introduction

Start the section with a general discussion of the project [2] [3] [4].

2.2 Project Details

In this section, you will elaborate on all the details of your project, using subsections if necessary.

2.2.1 Subsection_name

Figure 2.1: Figure name

You can fix the height, width, position, etc., of the figure accordingly.

2.3   Implementation

All the implementation details of your project should be included in this section, along with many subsections.

2.3.1   Subsection_name

This is just a sample subsection. Subsections should be written in detail. Subsections may include the following, in addition to others from your own project.

The workflow

Tools and libraries

Implementation details (with screenshots and programming codes)

Each subsection may also include subsubsections.

2.4   Algorithms

The algorithms and the programming codes in detail should be included .
Pseudo-codes are also encouraged very much to be included in this chapter for your project.

- Bullet points can also be included anywhere in this project report.

Algorithm 1: Sample Algorithm

Input: Your Input
Output: Your output
Data: Testing set x

1   $\sum_{i=1}^{\infty} := 0$ `// this is a comment`

    `/* Now this is an if...else conditional loop`   `*/`

2   **if** *Condition 1* **then**

3   Do something   `// this is another comment`

4   **if** *sub-Condition* **then**

5   Do a lot

6   **else if** *Condition 2* **then**

7   Do Otherwise

      `/* Now this is a for loop`   `*/`

8   **for** *sequence* **do**

9   loop instructions

10   **else**

11   Do the rest

    `/* Now this is a While loop`   `*/`

12   **while** *Condition* **do**

13   Do something

Chapter 3

Performance Evaluation

3.1 Simulation Environment/ Simulation Procedure

Discuss the experimental setup and environment installation needed for the simulation of your outcomes.

3.1.1 Subsection

3.1.2 Subsection

3.2 Results Analysis/Testing

Discussion about your various results should be included in this chapter in detail.

3.2.1 Result_portion_1

The results of any specific part of your project can be included using subsections.

3.2.2 Result_portion_2

Each result must include screenshots from your project. In addition to screenshots, graphs should be added accordingly to your project.

3.2.3 Result_portion_3

Each result must have a single paragraph describing your result screenshots or graphs or others. This is a simple discussion of that particular portion/part of your result.
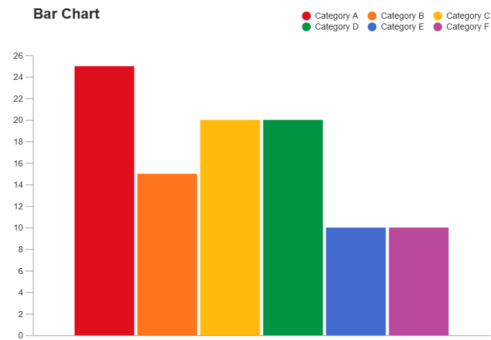
Figure 3.1: A graphical result of your project

3.3 Results Overall Discussion

A general discussion about how your result has arrived should be included in this chapter. Where the problems detected from your results should be included as well.

3.3.1 Complex Engineering Problem Discussion

[OPTIONAL] In this subsection, if you want, you can discuss in details the attributes that have been touched by your project problem in details. This has already been mentioned in the Table 1.1.

Chapter 4

Conclusion

4.1 Discussion

Discuss the contents of this chapter and summarized the description of the work and the results and observation. Generally, it should be in one paragraph.

4.2 Limitations

Discuss the limitations of the project. Limitations must be discussed, with the help of some critical analysis.

4.3 Scope of Future Work

Discuss the future work of the project, that is your plans for more work and extension of your project.

References

[1] Omid C Farokhzad and Robert Langer. Impact of nanotechnology on drug delivery. *ACS nano*, 3(1):16–20, 2009.

[2] Uthayasankar Sivarajah, Muhammad Mustafa Kamal, Zahir Irani, and Vishanth Weerakkody. Critical analysis of big data challenges and analytical methods. *Journal of Business Research*, 70:263–286, 2017.

[3] Douglas Laney. 3d data management: controlling data volume, velocity and variety. gartner, 2001.

[4] MS Windows NT kernel description. http://web.archive.org/web/20080207010024/http://www.808multimedia.com/winnt/kernel.htm. Accessed Date: 2010-09-30.