

A PROJECT REPORT ON

“World Wild Clock ”



Submitted by:- Team A1

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World Wild Clock

Overview

This project is a web-based time management application that integrates multiple time-related utilities, including an Alarm Clock, Stopwatch, Countdown Timer, Pomodoro Timer, and World Clock. The application provides a user-friendly interface to help users manage their time effectively.

Features

- **Analog and Digital Clock:** Displays the current time in both 12-hour and 24-hour formats.
- **Set Alarm:** Users can set alarms for specific times and receive notifications.
- **Stopwatch:** A stopwatch with start, stop, and reset functionalities.

- **Countdown Timer:** Allows users to set a countdown timer with a circular progress indicator.
- **Pomodoro Timer:** A customizable Pomodoro technique timer for productivity enhancement.
- **World Clock:** Displays the time for different time zones and cities.
- **Responsive Design:** The interface is designed to work across multiple devices.

File Structure

```
/ (Root Directory)
|-- index.html      # Main HTML file
|-- style.css       # Stylesheet for the application
|-- script.js       # JavaScript file for handling the logic
|-- assets/         # (Optional) Images, icons, or additional resources
```

HTML Structure

1. Header Section • Navigation menu for switching between

different time utilities.

- Contains links to Clock, Set Alarm, Stopwatch, Countdown Timer, Pomodoro Timer, and World Clock.

2. Main Sections

Each feature has a dedicated section:

a. Clock Section

- Displays an analog clock with hour, minute, and second hands.
- Digital clock format toggle between 12-hour and 24-hour.

b. Set Alarm Section

- Dropdowns for selecting hour, minute, and AM/PM format.
- Button to add an alarm.
- List of alarms set by the user.

c. Stopwatch Section

- Displays elapsed time in HH:MM:SS:MS format.
- Start, Stop, and Reset buttons.

d. Countdown Timer Section

- Users can enter minutes and seconds for countdown.
- Displays time remaining with a circular progress bar.
- Start Countdown button and reset functionality.

e. Pomodoro Timer Section

- Allows setting a session time (default 25 minutes).
- Start, Stop, and Reset buttons.
- Countdown display of the Pomodoro session.

f. World Clock Section

- Displays an analog world clock.
- Users can add different time zones and cities.
- City selector with a search feature.

3. Footer Section

- Contains social media links.
- Copyright information.
- Scrolling text for additional information.

JavaScript Functionality

1. Clock Function

- Updates the analog and digital clock in real time.
- Supports 12-hour and 24-hour formats.

2. Alarm Function

- Allows users to set alarms.
- Notifies users when the alarm time is reached.

3. Stopwatch Function

- Uses JavaScript timing functions to track elapsed time.
- Controls to start, stop, and reset the stopwatch.

4. Countdown Timer Function

- Allows users to set and start a countdown.
- Shows remaining time visually using a circular progress bar.
- Displays a message when the countdown ends.

5. Pomodoro Timer Function

- Implements the Pomodoro technique with a default 25-minute session.
- Allows customization of session time.
- Provides start, stop, and reset functionalities.

6. World Clock Function

- Displays the current time for different time zones.
- Allows users to add and search for cities.

Styling (CSS)

- The project is styled using `style.css` to provide a visually appealing and responsive interface.
- Uses `font-awesome` for icons.
- Provides structured layouts with proper spacing, buttons, and interactive elements.

Future Improvements

- **Sound Notifications:** Adding sound alerts for alarms and timers.
- **Dark Mode:** Implementing a toggle for dark mode.
- **Cloud Storage:** Saving user preferences and alarms in local storage or cloud.
- **Mobile App Integration:** Converting the web application into a mobile app for better usability.

Conclusion

This project provides a comprehensive suite of time management tools. It is designed to be simple yet functional, catering to a variety of user needs from time tracking to productivity enhancement.

