

COUNTDOWN TIMER DOCUMENTATION

1.PROJECT OVERVIEW :

The Countdown Timer Project is a simple application that allows users to set a time duration and track the countdown until it reaches zero. The project involves UI/UX design (Figma), System Flow & Architecture (Draw.io), and Version Control (GitHub/Git).

2.TOOL USED :

Figma → UI/UX design for the countdown timer interface.

Draw.io → Flowcharts, system design, and logic representation.

Git/GitHub → Version control and project collaboration.

3.UI/UX DESIGN (Figma tool):

1.KEY FEATURES:

Screen 1: Timer Setup

- **Time Picker:** Users can select hours, minutes, and seconds using scrolling pickers.
- **Quick Presets:** Three circular buttons allow setting predefined times (e.g., 10 minutes).
- **Start Button:** A large, prominent button to initiate the countdown.

Screen 2: Active Timer

- **Circular Progress Display:** Shows remaining time in a bold, central position.
- **Alarm Indicator:** Displays the expected completion time (e.g., 2:35 pm).
- **Control Buttons:**

- **Pause:** Temporarily stop the timer.
- **Delete:** Cancel the countdown.
- **Minimal Navigation Bar:** Small icons for menu and settings.

2. UI/UX Design Considerations:

- **Color Scheme:** Soft pink/red palette for a calm and modern look.
- **Typography:** Bold numbers for visibility, smaller labels for clarity.
- **User Experience:**
 - Large buttons for easy touch interaction.
 - Minimal distractions with a clean background.
 - Logical navigation with swipe/toolbar options.

4. Deliverables from Figma:

- **Figma File** containing:
 - Timer setup screen.
 - Active countdown screen.
- **Exported Assets:** Buttons, icons, and timer graphics for development.

4.FLOW & LOGIC DESIGN (draw.io Tool) :

Step 1 : Create a Flowchart for the countdown timer logic.

Start → Gather requirements → Design the layout (Countdown Timer) → webpage layout → Timer display → color, theme and icons of a design → Input Time → Implementation → Develop UI/UX design → Clickable prototype → Execution → Timer → To check whether it is working or not? → Testing → Check (Time > 0?) → Continue → Else Show "Time's Up" → End.

Step 2 : Save diagrams as .drawio and export to .png/.pdf.

5.VERSION CONTROL (Git & GitHub):

1. git config –global user.name “<GitHub user name>”

2. git config –global user.email “<GitHub email>”

3. Create a new repository on GitHub

4. Connect local project to GitHub

```
git remote add origin <Repository URL>
```

5. Add files:

```
git add README.md
```

6. Initialize Git in your project folder:

```
git init
```

7. Commit files:

```
git commit -m “First commit”
```

8. Adding files:

```
git add .
```

9. Commit file again:

```
git commit -m “First file is added”
```

10. Main Branch:

```
git branch -M main
```

11. Push files to GitHub:

```
git push -u origin main
```

12. Creating branches:

i. Checkout for old branch and move to new branch :

```
git checkout -b <new branch-name>
```

ii. Pushing files to new branch:

```
git push -u origin <branch-name>
```

6. Conclusion:

This project demonstrates the **complete workflow** of software development:

- **Design (Figma)** ensures a user-friendly interface.
 - **Flow & Logic (Draw.io)** ensures proper planning and understanding of execution.
 - **Version Control (GitHub)** ensures project tracking, backup, and collaboration.
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