

TOM FERRARI

Counter App Project

a journey in web development



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[Counter App Repo](#)



INTRODUCTION

my name is Tom Ferrari.

I am a web developer and UX/UI Designer based in the Netherlands. The purpose of this presentation is to show my counter app. How I developed it and the challenges I had to face.



THE PROBLEM

what's the problem?

In many aspects of our daily lives, at work, during recreational activities, and in various projects, people frequently need to count or keep track of specific items or occurrences. This counting process can become repetitive, time-consuming, and error-prone when done manually or mentally.

For instance:

- Inventory Management;
- Fitness Tracking;
- Event Attendance;
- Data Entry;
- Tallying Scores.



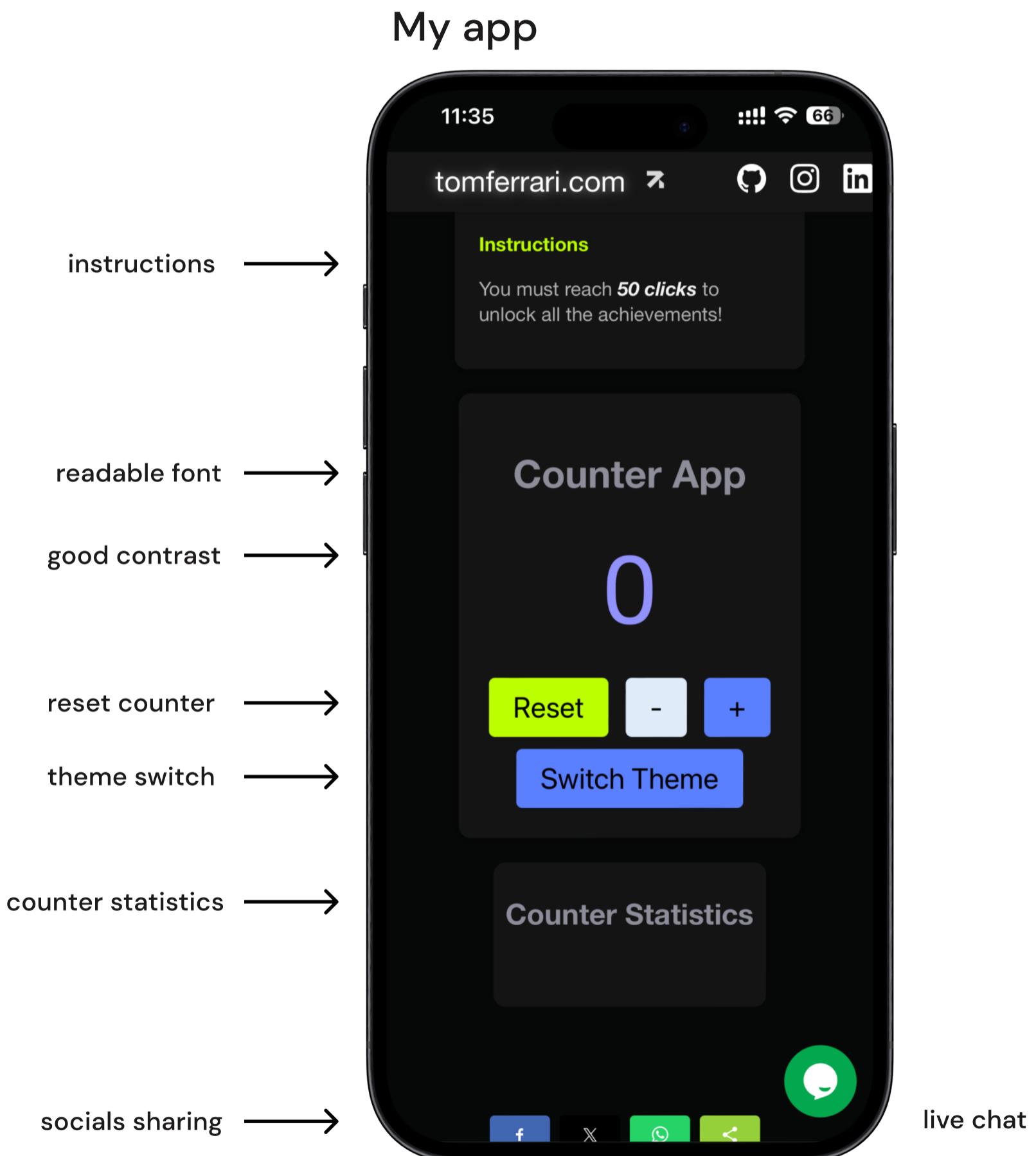
SOLUTIONS

Introduction to Counter App:

In this slide, I introduce the "Counter App" as the solution to the counting and tracking problem discussed earlier. I will provide a brief overview of the app and its primary functions.

impact

The app provides an efficient and error-free solution to counting and tracking needs in various real-life scenarios.



How it simplifies counting and tracking tasks.

Counting Operations

```
function incrementCounter() {
    counterValue++;
    updateCounterDisplay();
    playClickSound();
    applyButtonTemporaryColor(incrementButton, "#30fffb0"); // Temporary color change
    counterHistory.push(counterValue); // Store the current value
    updateCounterHistory();
}

function decrementCounter() {
    if (counterValue > 0) {
        counterValue--;
        updateCounterDisplay();
        playClickSound();
        applyButtonTemporaryColor(decrementButton, "#e95c57"); // Temporary color change
        counterHistory.push(counterValue); // Store the current value
        updateCounterHistory();
    }
}
```

Theme Switching

```
incrementButton.addEventListener("click", incrementCounter);
decrementButton.addEventListener("click", decrementCounter);

switchThemeButton.addEventListener("click", () => {
    isLightTheme = !isLightTheme;
    body.classList.toggle("light-theme");
    counter.classList.toggle("light-theme");
    setButtonColors();
});
```

Counter History

```
function updateCounterHistory() {
    historyList.innerHTML = "";

    counterHistory.forEach((value, index) => {
        const listItem = document.createElement("li");
        listItem.textContent = `Step ${index + 1}: ${value}`;
        historyList.appendChild(listItem);
    });
}

updateCounterDisplay();
```

Achievement System

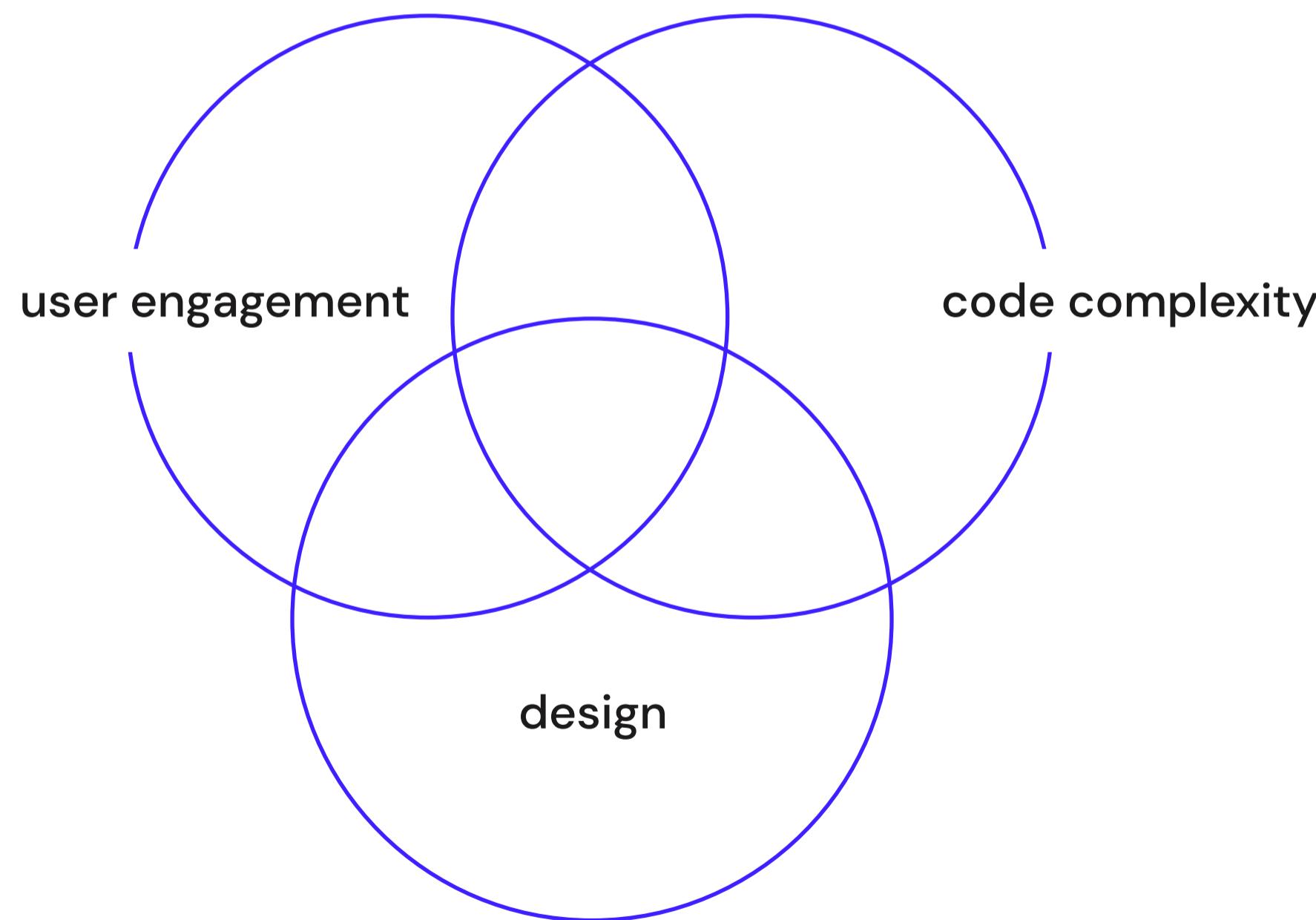
```
const achievements = [
    {
        name: "First Achievement",
        requiredClicks: 15,
        message: "Congratulations you unlocked: First Achievement",
        image: "image1.png"
    },
    {
        name: "Super Bonus Achievement",
        requiredClicks: 50,
        message: "Congratulations, did you really hit that 50 times?",
        image: "image2.png"
    }
];
```

Sound Feedback

```
function playClickSound() {
    clickSound.currentTime = 0; // Rewind the sound to the beginning
    clickSound.play();
}
```

CHALLENGES

In any software development project, challenges are inevitable.



User Engagement

One challenge was keeping users engaged. I addressed this by implementing an achievement system, sound feedback, and a dynamic UI to make the app more enjoyable.

Code Complexity

As the app grew, maintaining clean and organized code became more challenging. I had to manage interrelated functions and ensure readability.

Design

During development, I encountered various challenges, including ensuring cross-browser compatibility, optimizing performance, and designing a responsive user interface.

CONCLUSION

Web development is a process.

The journey of building the Counter App taught me valuable lessons in web development. I gained insights into user experience, responsive design, and the importance of real-time updates. These lessons will be carried forward to future projects, shaping my development approach.

PROCESS

HTML



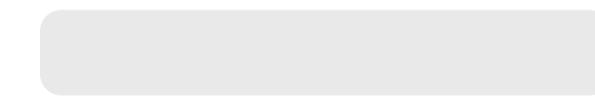
CSS



JS BASIC



JS ADVANCED



REACT



END

Thank you for your attention!

The Counter App has been a fascinating journey, filled with creative challenges and learning opportunities.

[Check the app here](#)

[Counter App Repo](#)

