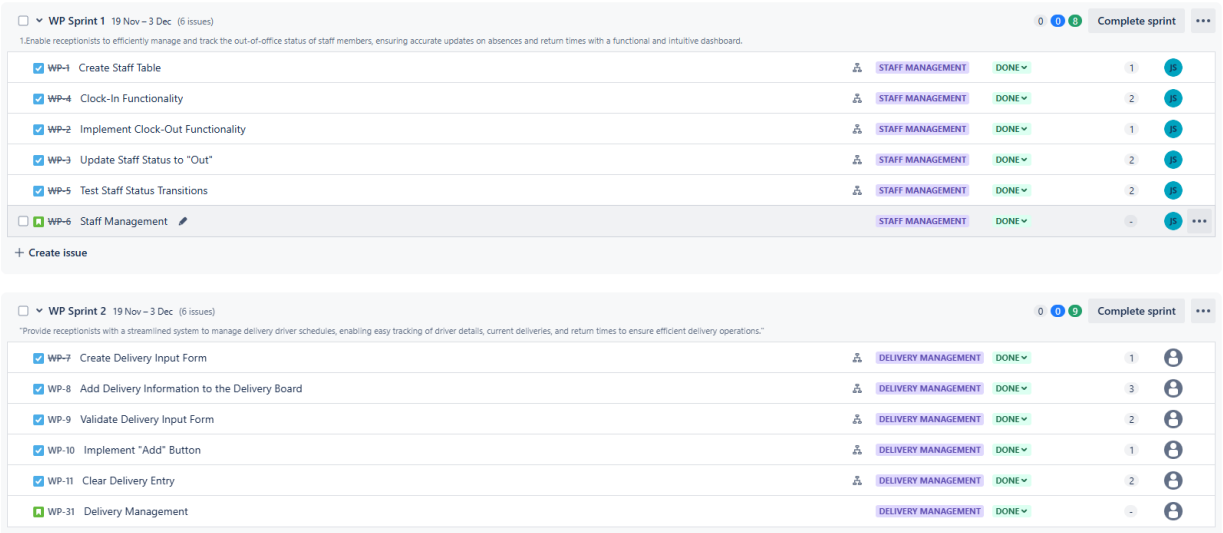
Jany Salinas

Reflection Report



For staff management, the application allows tracking of each staff member's status ("In" or "Out"), along with their out time, expected return time, and absence duration. Staff information is dynamically displayed in a table, and users can update statuses via "In" and "Out" buttons. While implementing this feature, I encountered an issue when trying to highlight table rows in green upon selection. The challenge was integrating this functionality with toast notifications—only one would work at a time. Resolving it required adjusting CSS and refining JavaScript functions to handle event logic effectively. Late notifications are also triggered if staff exceed their expected return time.

For delivery management, the application tracks delivery details such as the driver's name, vehicle type, contact information, and return time. Deliveries are listed in a separate table, and notifications are triggered if a delivery is delayed. Users can also select, manage, or remove deliveries from the list. Both features ensure clear, real-time tracking and management through intuitive interfaces and automated updates.

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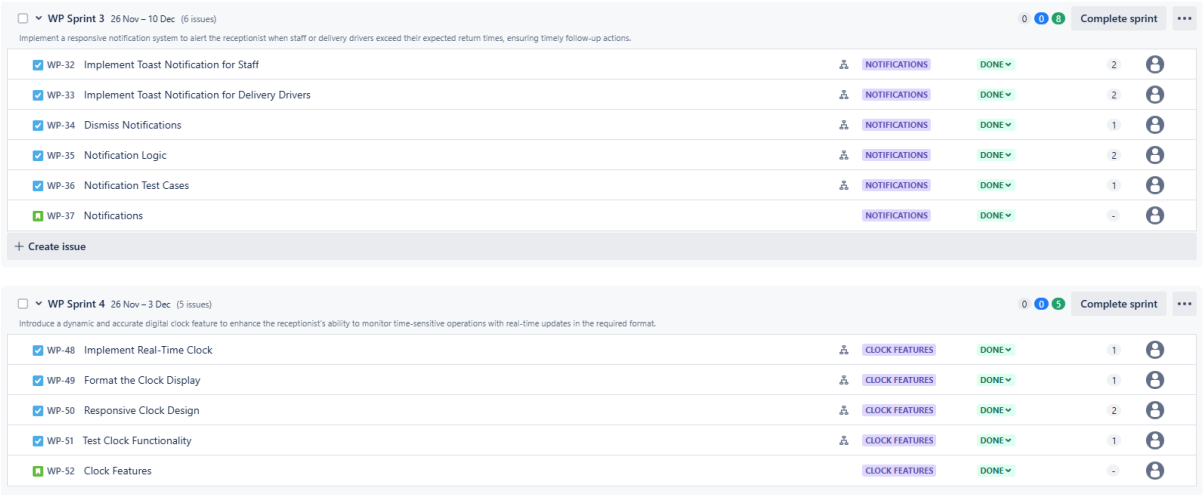
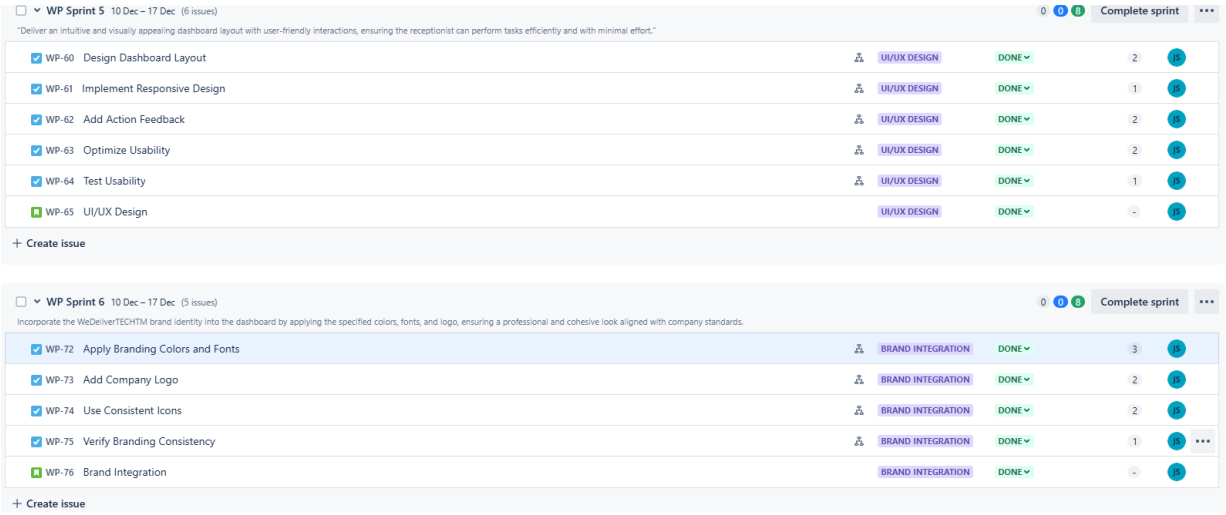


My code incorporates notifications and clock functionality to enhance the application's interactivity and usability. For notifications, toast alerts are used to inform users about late staff or delivery drivers, displaying key details such as names, return times, and delays. These notifications are dynamically generated and styled using Bootstrap to ensure visibility and responsiveness. The clock features include real-time updates for the current time and tracking of staff or delivery statuses. Staff and deliveries have expected return times calculated dynamically, and the system continuously checks for delays, triggering notifications when necessary. These features ensure users are informed and tasks are managed efficiently.



In designing my website, I prioritized both User Interface (UI) and User Experience (UX) to ensure functionality and ease of use. Using Bootstrap, I created a responsive interface with interactive tables, real-time status updates, and toast notifications. Features like row selection, "In" and "Out" buttons, and icons for vehicles or profiles improved visual clarity and navigation. For UX, I focused on intuitive interactions and user-centric features. Alerts for late staff or deliveries, form validation, and structured data ensured efficiency and clarity, enhancing the overall user journey.

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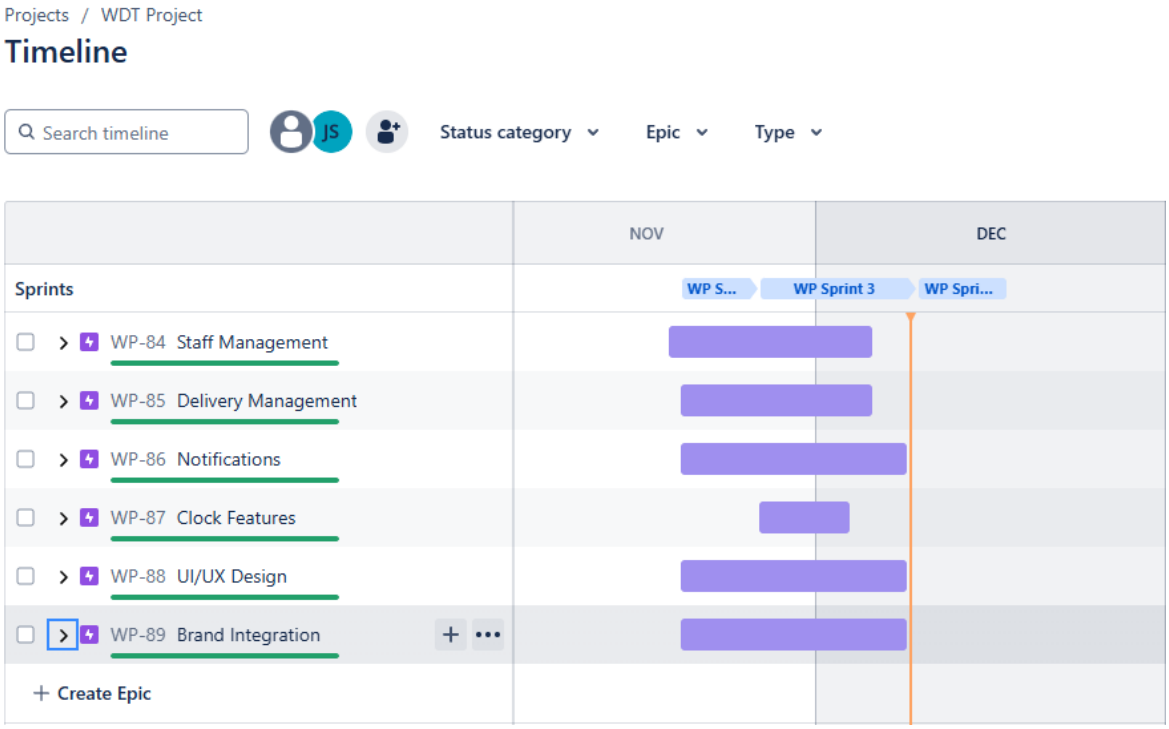

When it comes to the timeline, the duration required to complete various tasks varied significantly. Some features were implemented within a few hours, while others took several days to finalize. This largely depended on how well the code integrated with Bootstrap and how it functioned alongside the other components I developed. For example, while I was able to complete the staff management functionality relatively quickly, ensuring that it worked seamlessly with additional features like toast notifications or other dynamic elements often required iterative adjustments and refinements. This process of aligning different elements to function harmoniously sometimes extended the timeline for certain features.

This also applied to delivery management and its associated toast notifications. However, I was able to manage the timeline effectively. I would say that I completed most of the features around the same time, except for the skeleton, which serves as the fundamental framework of the project. While the skeleton took only a few hours to set up, implementing the functionalities and refining the other components took several days, and in some cases, even weeks. Nonetheless, the entire project was successfully completed within three weeks.

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Summary of the project

This project truly tested my limits and pushed me to explore, it involved building a web-based staff and delivery management system, leveraging JavaScript, Bootstrap, OOP and jQuery.

The goal was to implement functionalities such as tracking staff statuses, delivery schedules, and real-time notifications using OOP principles. I realized that I had misunderstood parts of the task, leading to a lot of back-and-forth and requiring me to delete significant portions of my code to start over. For example, I struggled with the toast functionality for the staff and delivery management, where I spent several days trying to get it to work. At one point, I felt quite hopeless as I couldn't figure out the issue, but in the end, I deleted a portion of my code and started fresh, which eventually allowed me to implement the toast feature successfully.

I also faced significant challenges with the overall design. For two days, I couldn't get the layout to appear as I intended, and it became frustrating. However, after spending a lot of time adjusting the elements, I was able to achieve the desired result. The project really pushed me to understand the intricacies of design and functionality, and even when I faced setbacks, I learned the importance of being patient and persistent.

There were additional challenges with implementing the "staff in" and "staff out" functionality, along with the click event to toggle the employees in and out. This part of the project came with several bugs, especially because Bootstrap wouldn't allow me to create a function were clicking on a staff member's row would turn it green. I spent a few days working through this issue, but once I figured it out, I was able to move forward. A similar issue arose when creating the delivery schedule. Bootstrap’s limitations made it difficult to implement the design I envisioned. I spent additional time troubleshooting this part of the project, but in the end, I was able to get the schedule to display correctly.

I also encountered difficulties with converting all the schedule requirements into an object so I could interact with them in the console. This took about three hours to fix, as the code had become quite complex, and I started losing track of certain aspects. Despite this, I took the time to carefully go through the code, troubleshoot, and make the necessary corrections.

Another challenge I faced was aligning the dashboard elements and the logo to be exactly where I wanted them on the page. I spent additional time adjusting the layout to ensure everything was positioned correctly. While this was a relatively smaller issue compared to some of the others, it was still a significant task, as getting the visual elements in the right place was crucial for the overall user experience.

Despite all the challenges, I managed to finish everything within three weeks. The foundational part of the project, the skeleton, took a significant amount of time, but I was able to complete it relatively quickly. The more complex functionalities, such as the staff and delivery management, took several days or even weeks to fully implement. In the end, everything was finished, but the process was far from easy.

I can honestly say that this project tested my problem-solving skills in ways I hadn’t expected. There were times when I felt incredibly stuck, questioning whether I could finish it. But, in hindsight, every obstacle I faced was an invaluable learning experience. It taught me how to approach problems systematically, how to break things down when a solution wasn’t immediately apparent, and the importance of patience and persistence.

I also gained a deeper understanding of how little code is needed to accomplish specific tasks, such as the real-time clock functionality. Initially, I was writing more code than necessary for small tasks, but as the project progressed, I learned to streamline my approach and use only the essential code.

In conclusion, the project was a massive challenge, but it was also an incredible opportunity for growth. The issues I faced—from the toast notifications to the layout adjustments—pushed me to improve my technical skills, patience, and troubleshooting abilities. I came to realize that setbacks are just part of the learning process, and by persevering through them, I not only achieved the project goals but also gained valuable insights into web development.