

# **Eco Clean – Scheduling Solution**

**Progress Report – Upul Atapattu**

## 1. Summary

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### 1.1. Project Requirements Gathering

#### 1.1.1. Changes to the Original Proposal

After having a detailed discussion with Stephanie Riddelle, we have the following changes to the original proposal.

- Even though the original proposal initially talked about client-side mobile interface, Stephanie has said the business is not driven by the client-side online booking. Therefore, she did not want to direct our efforts on this.
- The business runs NOT on shift basis and staff travel from their houses to the appointment places.
- Staff Time Tracking is a Must Have, with GPS-based clocked in/out. The interface has should have a count-down timer for the remaining appointment time. The appointments should have 4 different sections for the Location information, WiFi details, Other instructions and Attaching photos.
- Staff interface should have a way to update their availability, apply leave 2 weeks prior. The staff app should be connected to Google Maps for navigation.
- The web application should connect with Google Maps to calculate travel time. Also, when scheduled, the calendar should offer a repeat option.
- Most preferred design idea can be inspired from <https://www.getjobber.com/>

#### 1.1.2. Brainstorming for Conceptualize the Project Design

I have familiarized myself with couple of existing solutions such as MiHCM (for Staff Interface), ADP, and Douglas Employee Portal (for Web Application Interface). Based on Stephanie's recommendations, we have started a trail with [www.getjobber.com](https://www.getjobber.com) to study its UI design and workflow patterns.

### 1.2. Development Environment Setup

I was able to configure the local development environment with assistance from Vidarshan, established PostgreSQL database integration. This will help me to actively contribute to the implementation.

### 1.3. Developing Technical Skills

I was having a challenging time contributing to the implementation, let alone review the code what my partner has done. Since I did not have sufficient full-stack knowledge on React and NextJS, considerable time was dedicated to learning React via Udemy and NextJS via YouTube. This is expected to significantly accelerate my contribution to the code base/implementation in the upcoming weeks.

## 2. Worklogs

Date	Hours	Description
<b>15<sup>th</sup> January 2026</b> 2:30am-3:30am	1.5 hour	Prepare the project brief after studying the company website and the project scope.
<b>20th January 2026</b> 1:30pm-2:00pm	0.5 hours	Had the initial meeting with Stephanie Riddel to understand the scope of the Riipen project.
<b>24th January 2026</b> 4:00pm - 5:00pm	1 hour	Researched on existing scheduling solutions (ADP) and what it currently serves, what are their capabilities to understand the current market.
<b>25th January 2026</b> 3:00pm – 4.30pm	1.5 hour	Studied and reviewed the section that Vidarshan has done on the technologies and the development tools.
<b>25th January 2026</b> 8:00pm – 8.30pm	0.5 hours	Prepared the project timelines and deliverables
<b>26th January 2026</b> 5:00pm – 8:30pm	3.5 hours	Worked on the project proposal to match the project briefly, giving background, project scope, benefits and justification and finalized.
<b>29th January 2026</b> 10:00pm – 11:00pm	1.5 hours	Cloned the Github repo and reviewed the code that Vidarshan had initiated. However, no contribution to the code was done.
<b>30th January 2026</b> 9:45pm – 11.30pm	1.75 hours	Discussed with Vidarshan on the wayforward in terms of the implementation. Discussed on few brainstorming ideas for initial design for the mobile app (Based on MiHCM) and web portal (based on ADP, timesheets used by Douglas Employees portal)
<b>31st January 2026</b> 3:00pm – 4:00pm 5:30pm – 6:00pm	1.5 hour	Started a Udemy course on React as my fullstack understanding is not enough to do a proper vibe coding job. Covered the state management implementation and building form components with state.
<b>1st February 2026</b> 10:30am – 11:00am 12:00pm – 1:30pm 3:30pm – 4:30 pm 6:30pm – 7:00 pm	3.5 hours	Continued my learning on Udemy platform on component library development such as creating button, input and modal components.

<b>2nd February 2026</b> 9:00 pm – 10:00 pm 11:30pm – 12:30 am	2.0 hours	Covered styling system implementation includes setting up CSS modules and creating responsive layouts.
<b>3rd February 2026</b> 1:30pm – 2:30pm	1 hour	Had a google meet meeting with Stephanie Riddelle to talk about the business model, her requirement and the current process of scheduling.
<b>4th February 2026</b> 12:00am – 1:00am 2:00 am – 3:00am	2 hours	Continued my learning on Udemy platform on routing implementation topics such as setting up route structures, implementing protected routes for different user roles, and creating reusable navigation components.
<b>5th February 2026</b> 12:00 am – 1:30pm	1.5 hours	Reviewed the video call recording for better understanding of the scheduling process and the requirement. Based on Stephanie's recommendation, registered for <a href="http://www.getjobber.com">www.getjobber.com</a> as she preferred the user interface design and the workflow is better suited for her business.
<b>7th February 2026</b> 8:00 pm – 9:00pm	1.5 hours	Set up the project in my local machine with Vidarshan's help with the necessary env file for postgre integration.
<b>8th February 2026</b> 8:00 am – 9:00 am 2:00 pm – 3:00 pm 4:00 pm – 4:30 pm	2.5 hours	Continued my learning on Udemy platform on React useEffect topics including API integration patterns, loading and error state management, implementing theme selectors for light/dark mode functionality.
<b>9th February 2026</b> 7:00pm – 8:00pm	1 hour	Learnt about NextJS from YouTube, covering, why it is different from react, server-side rendering and API routes for backend integration for NextJS 15+.
<b>Total</b>	<b>28.25 hours</b>	

### 3. AI Usage

AI	Prompt	Value Addition
ChatGPT, Free	I'm trying to create a scheduling web-app. I want create a 24*7 calender in HTML, so I can later use with react, how would you guide me to do it. Let me show it part by part	Created for learning purposes and to create JSX components if necessary to implement in react.
ChatGPT, Free	how to use <a href="https://fullcalendar.io/">https://fullcalendar.io/</a> for do a schedule calendar	For brainstorming purposes
ChatGPT, Free	when I'm trying to do scheduling web app with next js. What are the things that I should learn? I have a grasp of react. What is different in NextJs and what are the areas I should expand?	Learning purposes
ChatGPT, Free	how to setup my postgre env file	To troubleshoot in the development environment
Gemini, Free	how to deal with  ⚠ The "middleware" file convention is deprecated. Please use "proxy" instead. Learn more: <a href="https://nextjs.org/docs/messages/middleware-to-proxy">https://nextjs.org/docs/messages/middleware-to-proxy</a> ✖ The file "./middleware.ts" must export a function, either as a default export or as a named "middleware" export. ?	To troubleshoot in the development environment