

# Tempus II

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Group T31

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# Issue

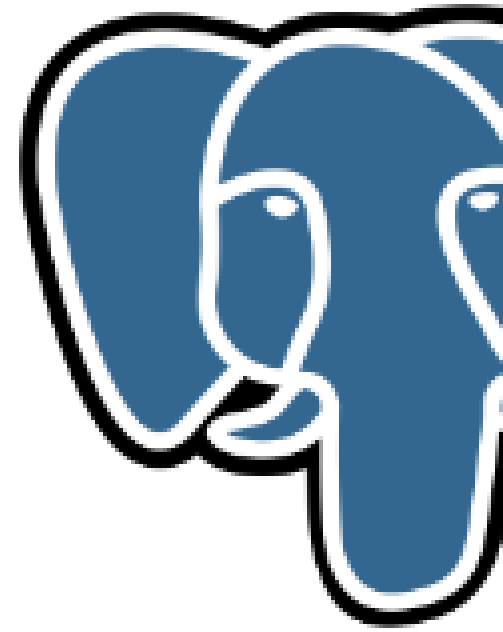
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- Inadequate communication between employees, supervisors, and client representatives, causing delays in timesheet approval.
- Difficulty in managing user roles and permissions, impacting the accessibility of system functionalities.
- Having an external Timesheet web application that is not a part of the onboarding system

# Solution

Implement	Facilitate	Integrate	Generate
Implement an easy-to-use, digital timesheet module for efficient and accurate tracking of hours worked.	Facilitate communication between employees, supervisors, and client representatives through notifications and timesheet approval workflows.	Integrate a user-friendly interface for managing user roles and permissions	Generate cost and billing reports so that clients can keep track of their expenses

# Technology Stack



# NX

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- Provides a suite of development tools designed for creating and managing monorepos.
- A monorepo is a single repository that hosts the code for multiple projects.
- NX allows developers to quickly create new applications and libraries with a consistent structure.



# Angular

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- Web application framework for designing dynamic, responsive, and scalable single-page applications using a structured, component-based architecture.



# NestJS

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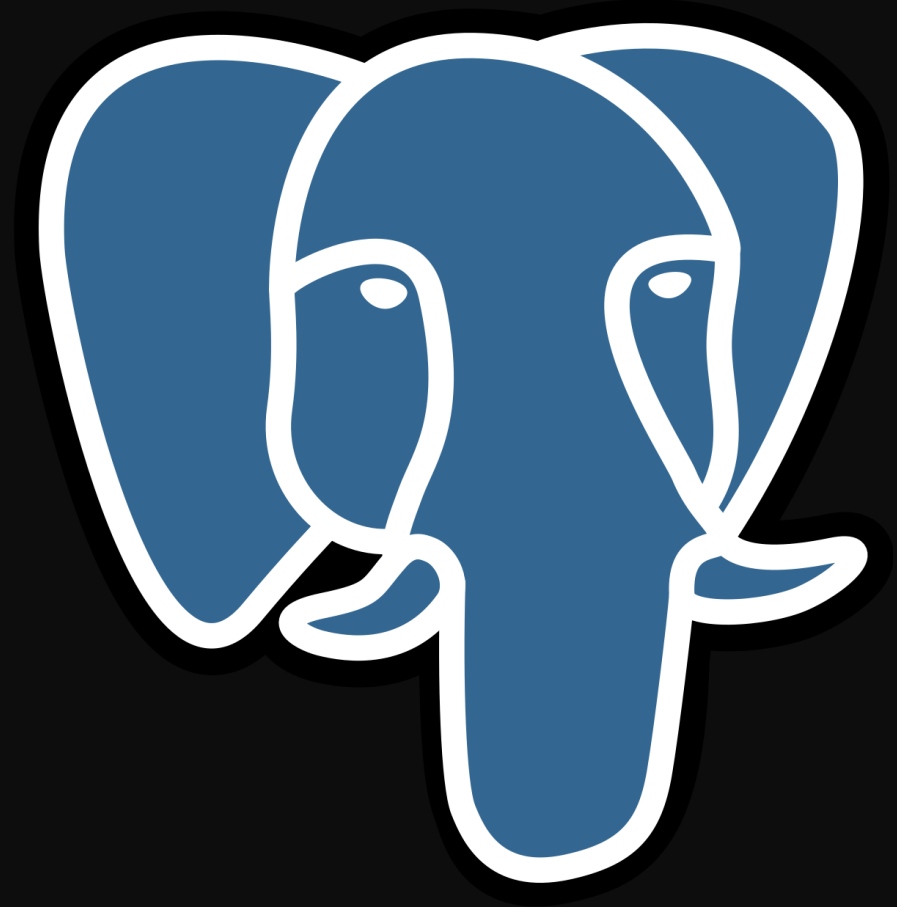
- Node.js framework designed to help developers build server-side applications and is built on top of the Express.js framework.
- NestJS is built with TypeScript and thus, provides the benefits of static typing, better tooling, and improved code quality in server-side applications.
- NestJS promotes uses the principle of modularity, which allows developers to organize their code into separate, reusable modules



# PostgreSQL

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- PostgreSQL is a Database Management System designed to help developers create applications with complex data storage and retrieval requirements.
  - Postgres with TypeORM simplifies database interaction, improves code quality, and makes it an excellent choice for developers building web applications.
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DEMO

- We will live demo the application



# Technical Issues Encountered



Database manipulation



Styling conflicts



Complex State management



Third-Party library integration



Controller logic and complexity



High learning curve

# Non-Technical Issues Encountered

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- Managing SEG4910 with other courses
  - Dividing the work efficiently
  - Communicating effectively
  - Engaging with stakeholders
  - Listening to colleagues
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# Overcoming the Issues



Create a schedule to allocate time for SEG4910



Assign tasks to team members based on their strengths, interests, and availability.



Encourage open dialogue, listen to different perspectives, and work together to find solutions



Regularly review and reflect on the team's performance, communication, and collaboration.



# Future Development



Deploy	Deploy the application in production mode
Implement	Implement the billing and cost reports
Implement	Implement the automation of timesheet creations
Create	Create the notification and audit log systems
Revamp	Revamp the UI to match company colors



Thank You!

