



FLEETWAVE

PROJECT PRESENTATION



PURPOSE AND GOALS

Purpose: To allow the small carriers in the logistics industry to easily manage loads, trucks, drivers and get insights into how their business is running by inputting data and getting use information from that data that will allow them to grow their business and provide them a competitive advantage over others.

Goals: To build an easy-to-use web application that we will provide software as a service to small business owners – specifically carriers to help them manage their business.

MEET THE TEAM

TEAM MEMBER	DEGREE + TRACK	EMAIL	PHONE NUMBER OR OTHER CONTACT INFO	PROJECT ADVISOR
Rashminder Gill	BSCS + MBA	randhars@mail.uc.edu	(513) 462-5849	Yahya Gilany
Raj Sekhon	BSIT + MBA	sekonsj@mail.uc.edu	(513) 807-9638	Yahya Gilany
Rishabh Sharma	BSIT + MSIT	sharmrb@mail.uc.edu	(513) 957-6505	Yahya Gilany
Jaspreet Singh	BSIT + MBA	Singh2je@mail.uc.edu	(513) 448-6879	Yahya Gilany
Elizabeth Bissinger	BSIT	bissinel@mail.uc.edu	(614) 832-9456	Yahya Gilany

PROJECT ABSTRACT

Project Summary: In the logistics industry, carriers often lack a centralized platform to efficiently manage loads, trucks, and drivers. This project aims to bridge this gap with a web-based application. It will enable carriers to track loads and drivers in real-time, access financial reports, utilize integrated GPS, generate invoices, and maintain load histories. By enhancing communication between carriers, brokers, and drivers, this solution saves time, reduces potential errors, and streamlines logistics operations.

Problem Statement: Inefficient load and driver management for carriers, coupled with delayed access to critical information for brokers, result in time and resource wastage. The absence of a comprehensive logistics management application necessitates a unified platform. This project addresses these challenges, offering a solution that promotes operational efficiency.

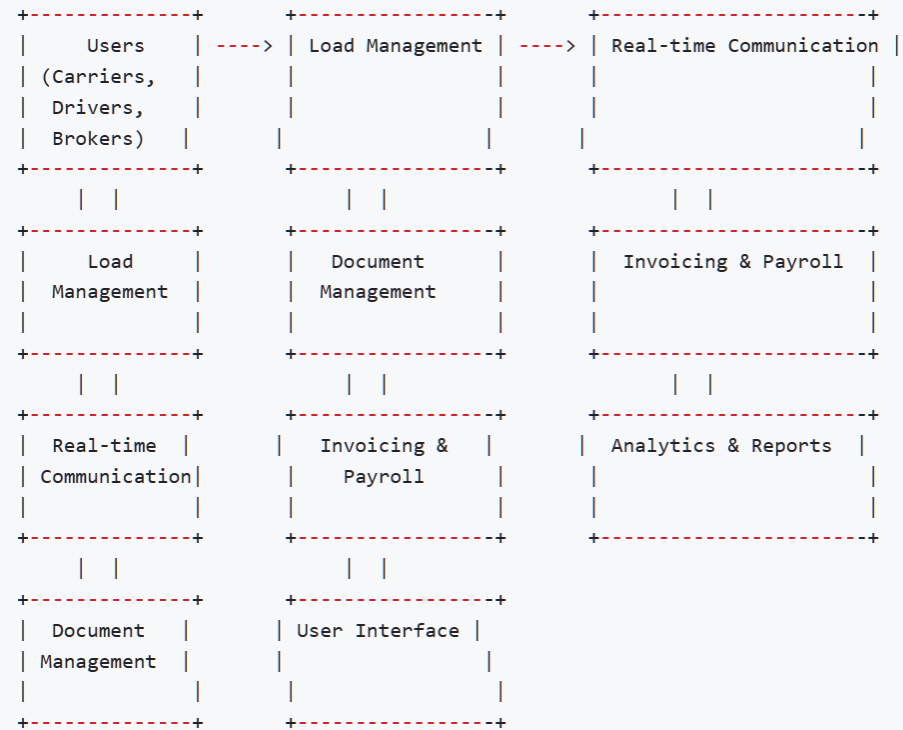
Solution: The proposed web-based application empowers carriers with tools for real-time load tracking, financial reporting, GPS integration, invoice generation, and load history management. This comprehensive solution optimizes logistics operations, saves time, and minimizes errors, benefiting the entire transportation process.

USER STORIES

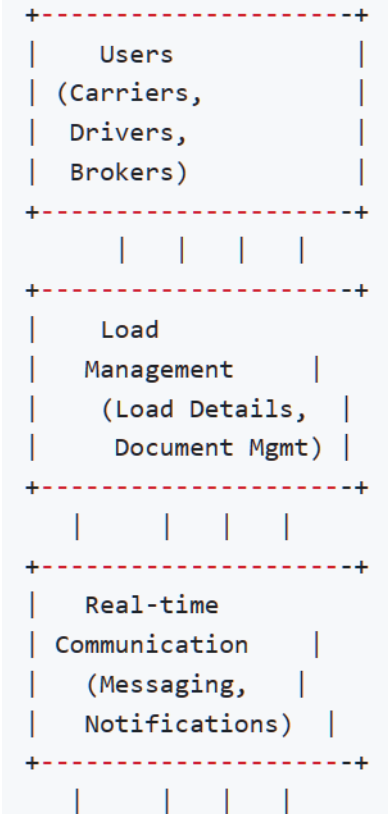
- 1. User Story:** As a carrier dispatcher, I want to track load details and driver information in one place so that I can efficiently manage and assign loads to drivers.
- 2. User Story:** As a truck driver, I want real-time updates on load status and delivery information so that I can plan my routes and deliveries effectively.
- 3. User Story:** As a carrier, I want an automated invoicing system so that I can process invoices to brokers accurately and on time.
- 4. User Story:** As a carrier owner, I want financial insights and reports on revenue and expenses to make informed decisions about my business's financial health.
- 5. User Story:** As an administrator, I want to ensure that user data is secure and that privacy regulations are upheld to maintain trust and compliance within the application.

DESIGN DIAGRAMS

Design D0: High-Level System Overview



Design D1: Elaborated System Modules



DESIGN DIAGRAMS (CONTINUED)

```
## Design D2: Detailed Component Interactions

+-----+
| User Interface |
+-----+
      |      |
+-----+
|   Load Details   |
+-----+
      |      |
+-----+
| Invoicing &      |
|   Payroll        |
+-----+
      |      |
+-----+
| Analytics &      |
|   Reports        |
+-----+
      |      |
+-----+
|   Real-time      |
| Communication    |
+-----+
      |      |
+-----+
| Data Security    |
+-----+
```

CONSTRAINTS

- Economic Constraints:**

- Budget limitations require careful financial management.
- Funding sources, including personal and corporate, significantly influence decision-making.
- The project has the potential to enhance economic development in the logistics sector.

- Professional Standards:**

- The project team must possess expertise in software engineering, UI/UX design, and database management.
- Meeting industry expectations for functionality and usability is crucial for success.

- Ethical Considerations:**

- Privacy and data security are paramount.
- Sensitive user information must be safeguarded.
- Transparent data practices and securing user consent are essential.
- Efforts to mitigate potential biases are required.

CONSTRAINTS

- Economic Constraints:**

- Budget limitations require careful financial management.
- Funding sources, including personal and corporate, significantly influence decision-making.
- The project has the potential to enhance economic development in the logistics sector.

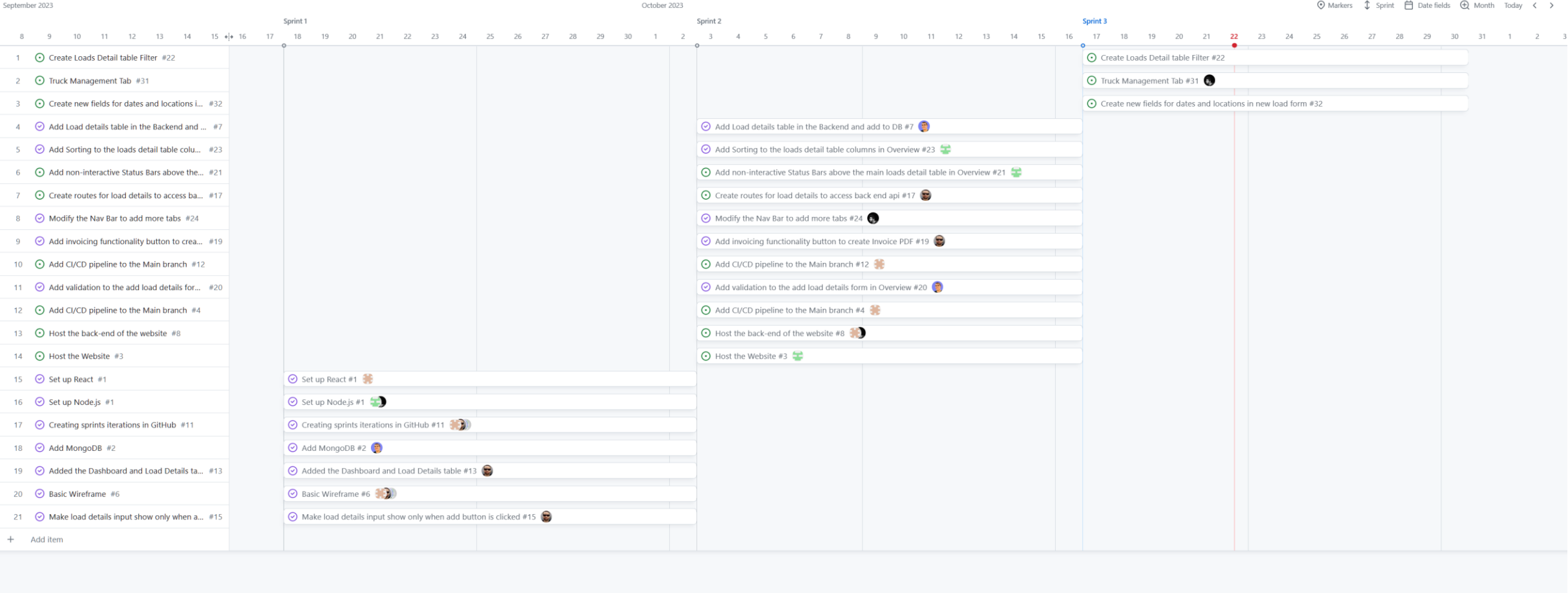
- Professional Standards:**

- The project team must possess expertise in software engineering, UI/UX design, and database management.
- Meeting industry expectations for functionality and usability is crucial for success.

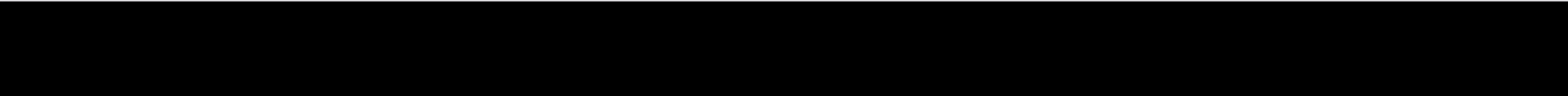
- Ethical Considerations:**

- Privacy and data security are paramount.
- Sensitive user information must be safeguarded.
- Transparent data practices and securing user consent are essential.
- Efforts to mitigate potential biases are required.

PROGRESS



EXPECTED ACCOMPLISHMENT AT THE END OF THIS TERM



←

↺

localhost:5173/dashboard/overview

🔍

A

☆

⚙️

🖨️

⌵

🔖

🌐

⋮

🔗

📄 Java Path | Pluralsight

👤 Online Courses - A...

🗣️ Translate

📰 News

📖 Learn to Code - for...

📺 Overview (Java SE 1...

📺 IT Learning Center |...

>

FLEETWAVE

Overview

Fleet Management

Reports

Finance

Welcome, Jatt Singh

Overview

Load #

Truck #

Trailer #

Select Driver

Add new driver

Add Driver

--:--

⌚

--:--

⌚

Choose File

No file chosen

Price

Detention

Miles

Fuel

Add

Load #	Truck #	Trailer #	Driver Name	Pick-up Time	Delivery Time	Documents	Price	Detention	All miles	Gallons	Status	Action
--------	---------	-----------	-------------	--------------	---------------	-----------	-------	-----------	-----------	---------	--------	--------

Finish core functionality this semester, which is the Overview and fleet management tab.

Reports and Finance Tabs will be nice to have.

DIVISION OF WORK

Phase 1 [↗](#)

Task Description	Rishabh Sharma	Elizabeth	Jaspreet Singh	Raj Sekhon	Rashminder Gill
Tracking load details	15%	15%	15%	15%	15%
User inputs	10%	10%	10%	10%	10%
- LOAD#	5%	5%	5%	5%	5%
- Truck Object	5%	5%	5%	5%	5%
- Trailer Object	5%	5%	5%	5%	5%
- Driver Object	5%	5%	5%	5%	5%
- Pick up time	5%	5%	5%	5%	5%
- Delivery time	5%	5%	5%	5%	5%
- Documents: Proof of delivery and Rate confirmation	5%	5%	5%	5%	5%
- Price	5%	5%	5%	5%	5%
- Detention	5%	5%	5%	5%	5%
- All miles	5%	5%	5%	5%	5%
- Gallons	5%	5%	5%	5%	5%
- Status	5%	5%	5%	5%	5%
- Broker info	5%	5%	5%	5%	5%
- Name	2.5%	2.5%	2.5%	2.5%	2.5%
- Phone number	2.5%	2.5%	2.5%	2.5%	2.5%
- Email	2.5%	2.5%	2.5%	2.5%	2.5%
- Company	2.5%	2.5%	2.5%	2.5%	2.5%
- Comments	5%	5%	5%	5%	5%
Filter capabilities	10%	10%	10%	10%	10%
Search capability	10%	10%	10%	10%	10%
Invoice generation	15%	15%	15%	15%	15%

Phase 2

Task Description	Rishabh Sharma	Elizabeth	Jaspreet Singh	Raj Sekhon	Rashminder Gill
Payroll – calculating pay for drivers	15%	15%	15%	15%	15%
- Filtering by Driver and Dates	10%	10%	10%	10%	10%
IFTA – logging all miles and gallons	10%	10%	10%	10%	10%
Deadhead miles	10%	10%	10%	10%	10%
Reports/Visual Analytics	10%	10%	10%	10%	10%
- Revenue, expenses	10%	10%	10%	10%	10%
- IFTA reports	10%	10%	10%	10%	10%
- Driver payroll	10%	10%	10%	10%	10%
- Driver mpg (miles/gallon)	10%	10%	10%	10%	10%
Login page and accounts	15%	15%	15%	15%	15%



FLEET WAVE

Thank you