



**CYBERLOGITEC VIETNAM CO., LTD.**

**Javascript Web Application Training (JWAT)**

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**Shipping Route Management System**

# **Project Report**

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# PROJECT OVERVIEW

Shipping Route Management System will facilitate efficient management of shipping routes in the sea, providing users with a robust platform to handle route creation, management, and notifications seamlessly

## 1. Finished product

Here are the products that will be completed after the end of JWAT:

- Website for admin
- Website for customer
- Backend
- Documents
- Video demo

## 2. Features

### 2.1. Admin

Dashboard	Route, user, role, permission statistics
	Chart showing most traveled locations
User management	View list of users, export to excel
	View user information
	Assign role to specific users
	Activate / Inactivate specific users
Route management	View list of routes, export to excel
	View details, edit, create, delete route
	View direction between two locations on map by coordinates (Can zoom in/out, get current location)
Role management	View list of roles, export to excel, import from excel
	View, edit, create, delete information
	Assign permissions to role
Permission management	View list of permissions

Authentication	Login by system (with access token and refresh token)
	Logout

## 2.2. Customer

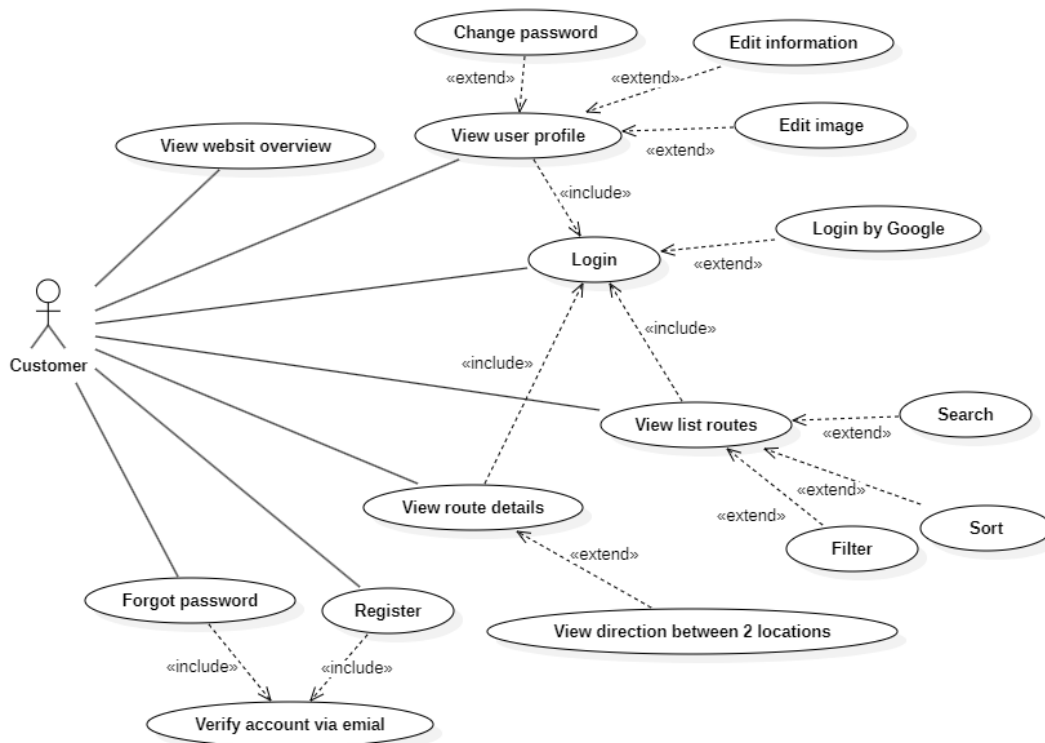
Homepage	Display system goals
	Introduce the services provided
	Group information
Contact page	Form to enter personal information to comment with AI
Route page	View list of routes, export to excel
	View route information
	View direction between two locations on map by coordinates (Can zoom in/out, get current location)
User profile page	View user information
	Update user information
	Update / Remove user image
	Change password
Authentication	Register account
	Login by system (with access token and refresh token)
	Login by Google
	Forgot password
	Email verification
	Logout
Assistance	Chat system supports users

### 3. Technologies

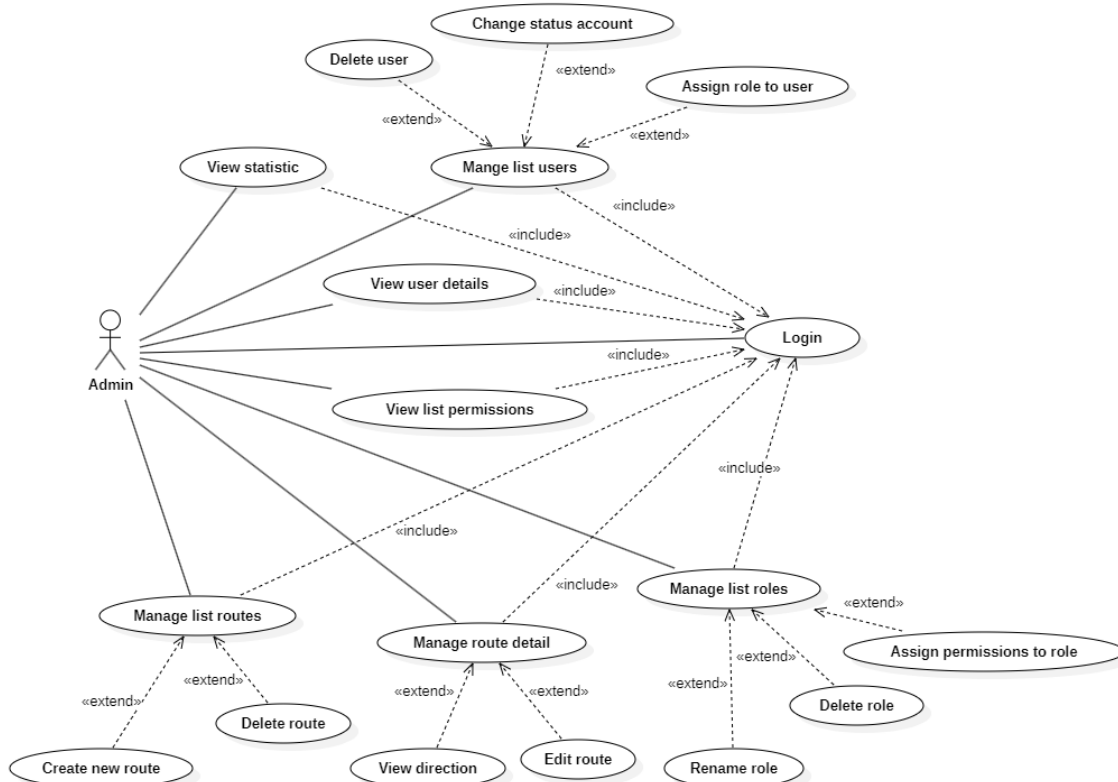
Frontend	Next.js with Typescript
	Redux Toolkit
	CSS modules, Ant design, Chart.js
	Mapbox for directions
	Socket.io
	Cloudinary for uploading user image
	Oauth2 with Google Authentication
Backend	NestJS with Typescript, TypeORM and Microservices
	Graphql Federation Monorepo
	Redis, gRPC, NestJS Socket
	Nodemailer, Kafka
	OpenAI GPT 4o mini
	Oauth2 with Google Authentication
Database	PostgreSQL
	DBEaver
Docker	Postgress
	Zookeeper, Kafka
	Redis
	Backend
	Frontend admin
	Frontend customer

## 4. Use case

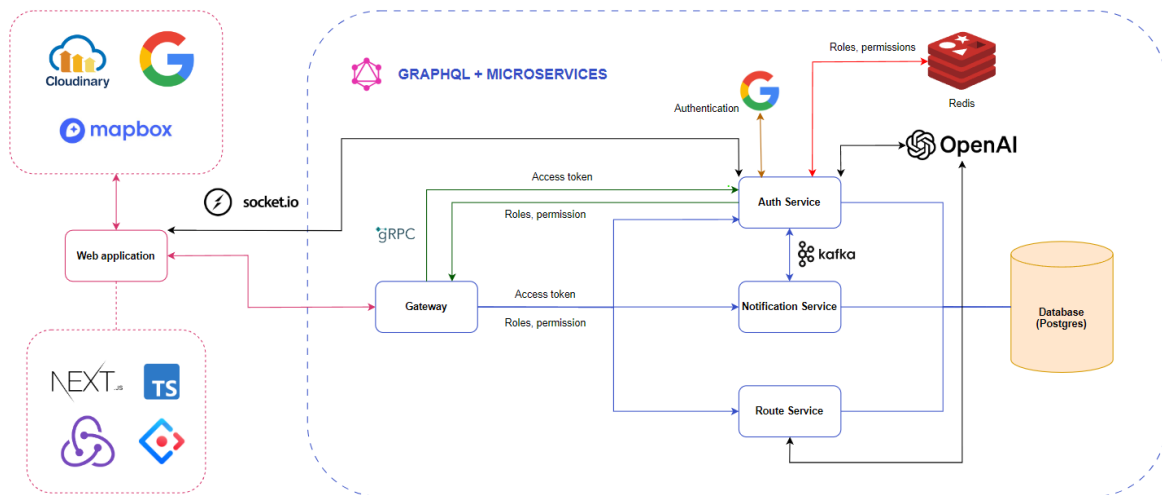
### 4.1. Customer



### 4.2. Admin



## 5. Architecture



## 6. Database design

