

Project plan

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Northern Eagle Deliveries

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1. Project assignment

1.1 Context

The client is a delivery company in need of an online inventory to store information about their deliveries.

1.2 Goal of the project

The goal of this project is to create a piece of software which will allow the client company to store all kinds of information about deliveries they need to make, including package descriptions, weight, addresses, detailed info about each delivery and send dates.

1.3 Scope and preconditions

Inside scope:	Outside scope:
1 Database to store information	1
2 Web-based front end in ReactJS	2
3 REST API back end in Java Springboot	3

1.4 Strategy

For this project, the agile way of working is going to be used.

1.5 End products

- Fullstack application making use of back end, front end and a database
- Functionalities implemented based on user stories
- Secure authentication & authorization using JWT
- Deployed components using Docker

2. Activities and time plan

2.1 Phases of the project

- Sprint 1 – Project plan, backlog, test plans, RESTful API (first setup), CI/CD environment initialization
- Sprint 2 – Design Document, UML Diagram, RESTful API supporting more requests, Database
- Sprint 3 – Front end first version in ReactJS, All components connected
- Sprint 4 – Authentication implemented using JWT
- Sprint 5 – Most functionalities completed
- Sprint 6 – Updated CI/CD, project dockerized, functionalities finalized

3. Testing strategy and configuration management

3.1 Testing strategy

- Back end unit testing
- Front end testing
- Acceptance testing

3.2 Test environment and required resources

Unit tests inside the development environment will be used for the back end testing. The front end tests will be written in Cypress. Acceptance tests will be run manually according to each user story's acceptance criteria.