

Tasks for candidates

Preferable technologies

- Java 8+, Gradle (preferable) or Maven
- Spring Boot, Spring Data JPA (use Postgres), Liquibase
- Proxy/API Gateway
- Message Brokers
- Swagger (detailed API description for resources)
- Unit tests written on Spock Framework (preferable) or JUnit
- Provide detailed deployment instructions for getting your solution up and running
- Create an opportunity to start services using **docker compose** or **minikube**
- Feel free to add any additional features and practices so your submission in order to demonstrate your expertise in writing production grade software

Parcel Delivery APP

You'll be expected to build the back- end of the web app, while the front-end will be built by another developer in the team.

To do this, you are expected to implement a solution that enables the user stories provided. This solution must be implemented as a **micro-service architecture** that is deployable using **container technology**.

- Design a solution architecture diagram for Parcel Delivery APP based on micro-service technologies;
- Implement the micro-services required for Parcel Delivery APP to bring the user stories provided to reality;
- Containerize your micro-service solution to allow for it to be easily tested on other developer computers;

User stories

User	Admin	Courier
Can create an user account and log in*;	Can change the status of a parcel delivery order;	Can log in;
Can create a parcel delivery order**;	Can view all parcel delivery orders;	Can view all parcel delivery orders that assigned to him;
Can change the destination of a parcel delivery order***;	Can assign parcel delivery order to courier;	Can change the status of a parcel delivery order;
Can cancel a parcel delivery order****;	Can log in and create a courier account*;	Can see the details of a delivery order;
Can see the details of a delivery;	Can track the delivery order by coordinates;	
Can see all parcel delivery orders that he/she created;	Can see list of couriers with their statuses;	

* - with JWT;

** - define fields yourself;

*** - define when user can change the destination yourself;

**** - define when user can cancel parcel delivery order yourself;

* - define courier types yourself;