

What you need to build

Deutsche Post in Berlin needs your help. The city is growing rapidly, new post offices are being built so a new software is needed:

What we're looking for

- Completeness of solution - does the app work as per the requirements?
- Quality of code - is your code clean & well written?
- User interface - does the page look ok, does it look broken?
- Tests - What should be tested?

Task 1: API

Build a restful Api With Scala and database of your choice to manage the offices and the shipments.

The API consists of the following resources:

Offices

GET /offices Get all offices

GET /offices/:office_id Get an office given its ID

POST /offices Create a new office

PUT /offices/:office_id Update an office

DELETE /offices/:office_id Delete an office

An office should have:

- Zip code (unique)
- Name

Shipments

GET /shipments Get all shipments

GET /shipments/:shipment_id Get a shipment given its ID

POST /shipments Create a new shipment

PUT /shipments/:shipment_id Update a shipment

DELETE /shipments/:shipment_id Delete a shipment

A shipment should have:

- Id (unique)
- Post Office
- Type:
 - Letter
 - Package
- Status:
 - Received and processed in the parcel center of origin,
 - Received and processed in the destination parcel center,
 - Delivered
- Weight:
 - Less than 1kg,
 - Between 1kg and 5kg,
 - More than 5kg.

Task 2: UI

Build a single page application where a user can:

- Add, Remove and Update shipments as well as post offices. Please use different routes in the application.
- List all offices and shipments in the system, paging should be supported.
- Filter shipments by shipments ID number, status, location (Post Office) and weight (use the frontend for filtering)

Tips

- Please use the api from Task1 to manage the offices and the packages.
- Please use React to build the UI
- Feel free to use any HTML/CSS framework, e.g. Bootstrap, Material Design,...
- Please do not hesitate to let us know if you have any questions.

Result:

Please provide the result as a github repository:

- The project with all source files
- A README document that lists the architectural decisions you made during the development
- main steps of building your solution as well as all assumptions/decisions you made in case of unclear requirements or missing information.

Happy Coding!