*Had to refresh a few concepts prior to start working on the test, not counting this on the time log.*

*Used IntelliJ Idea Ultimate with Spring Initializr, MySQL Workbench and Postman for testing endpoints.*

**00:00-00:15**

**Actions:**

Set up project, set up github repo and first commit, created database.

Check dependencies and write application properties.

**00:15-00:30**

**Actions:**

Create models and repositories. Check tables are correctly created in database.

**Comments:**

Had issues creating relationship in model for manager\_id field, left a standalone field instead.

**00:30-00:45**

**Actions:**

Create dummy data on database with workbench.

**Comments:**

Had issues implementing enum field on database, reverted to string field instead. Endpoint set-manager will still check the correct word.

**00:45-01:00**

**Actions:**

Create Services and Controller.

Complete (GET) localhost:8085/API/V1/employees and check it works.

**01:00-01:15**

**Actions:**

Complete employee filter by name or email and check it works. Filter word is in path variable.

**01:15-01:30**

**Actions:**

Complete (GET) localhost:8085/API/V1/dep-emp and check it works.

Started (GET) localhost:8085/API/V1/department?name=?

**01:30-01:45**

**Actions:**

Complete (GET) localhost:8085/API/V1/department?name=? and check it works.

**Comments:**

As I understand, it asks for a list of departments wrapped up in a DTO. Created an endpoint /departmentName instead.

**01:45-02:00**

**Actions:**

Start (PATCH) localhost:8085/API/V1/department/set-manager/{employeeId}

**02:00-02:15**

**Actions:**

Complete (PATCH) localhost:8085/API/V1/department/set-manager/{employeeId}, check it works. Start (DELETE) localhost:8085/API/V1/department/:id

**02:15-02:30**

**Actions:**

Complete (DELETE) localhost:8085/API/V1/department/:id, check it works.

**02:30-02:45**

**Actions:**

Try to create tests unsuccessfully. Investigate CORS.

**Comments:**

Covered Testing and MockMvc slightly at bootcamp (1day) and tried to create testing endpoints and models but did not work, so I would not be comfortable writing tests at this point without further research. I was not aware of CORS, investigated and tried to make it work but didn’t either. Not aware of Liquibase, I created the dummy data manually on workbench.

**02:45-03:00**

**Actions:**

Design the SQL test structure. Wrote the diagram, which is in the git repo as an excel file.

**03:00:03:15**

**Actions:**

Complete SQL queries that would implement the above table structure.

**Comments:**

Not familiar with scripting tools so I wrote the set of queries instead.

Not familiar or comfortable with triggers and update loops in SQL so unfortunately couldn’t progress further at this point.