

## Spring Boot Microservice Enterprise Applications with Java

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### Assignment 3

**All assignments must be submitted online before the deadline. See online for due date.**

<b>Note: Late assignments are not accepted</b>
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There 3 parts to this assignment

Part 1 – Data storage and External resources

The main goals and deliverables in this assignment are:

- Define the database schema – use the MySQL workbench to create a new model and define your ER diagram. Create a Word document and paste a screenshot of your diagram or you can export a PNG/PDF file. Also please explain anything you feel is out of the ordinary that you feel needs special mention. Use relevant data types for your table columns
- Use the Workbench Synchronize to create/apply changes to your database
- Map your entities using Hibernate (annotations or XML) and wire up Spring
- Use the RestTemplate to call other Microservices as necessary
- Modify your code to get rid of any hardcoded values from the previous assignment
- Modify and write new tests your tests to work with your database and test reading/writing/updating the data using your tests
- Implement atleast two thirds of features you intend to create and have atleast 2 microservices

Part 2 – Microservices infrastructure – config and discovery

- Setup your configuration service
- Setup your discovery service
- Connect your micorservices and test end-to-end

Part 3 – REST Assured test automation

- Create a test project for API testing
- Write some tests for each of your microservices

Once you are satisfied and ready to submit your assignment, please create a “branch” in Git and name it “assignment3”

Submit Assignment 3 in UCSC Extension Online to indicate that your Git repo is ready. Also attach your Word/PDF document describing your Entity-Relationships.

### Grading

	Points	Description
<b>Part 1</b>	5	Schema definition – ER diagram
<b>Part 1</b>	10	Java interface definitions and implementation of repositories/DAO and RestTemplate use
<b>Part 1</b>	5	JUnit Test cases and code coverage
<b>Part 2</b>	10	Config and Discovery setup and use
<b>Part 3</b>	10	Test project setup and use
	40	Total