

API EC May – August 2022:

CAT 1: Lab Exercise (Group Work)

Instructions

- Attempt the entire task
- In groups of 6 members (**minimum of 5**), complete the following task:

Task

- i. Choose an entity from the list below (Appendix 1)
- ii. Identify at least classes that can be used to describe the entity (refer to **bookfarm** exercise)
- iii. Create an association diagram for the **3** classes and include the possible relationships between them (One-to-One, etc.) (**10 Marks**)
- iv. Create a Spring Boot Application on IntelliJ or Spring Initializr (https://start.spring.io/) and:
 - a) Load the application into your IDE
 - b) Ensure you also include the relevant dependencies during app initialization
 - c) Create the 3 models you designed in (iii above)
 - d) Ensure the relationships are also enforced in the model creation on the Spring Boot App
 - e) Compile the application (running the Spring Boot Starter app), to confirm the app setup is successful.

NOTE: Since we have not designed actual APIs, the server log will be able to tell you where your application assembly is successful when it does not generate an error

(15 Marks)

v. Add your entire project to a local repository and then push the project to a remote repository on GitHub

Deliverable: Submit the link to your GitHub repository at the eLearning portal

(5 marks)

Deadline: 23 July, 2022 (11:59 PM)

Appendix 1: List of Possible Entities

- i. Hospital
- ii. School
- iii. Hotel
- iv. Car Hire
- v. Bank
- vi. Real Estate Company
- vii. Bakery
- viii. Charitable Organization
- ix. Airline
- x. Superstore
- xi. Any other of your choosing

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