

- **Implement basic Spring Security:**

( 5 points) Download the attached SpringBoot/SpringWebMVC app project which is not secured. Add basic spring security to the application such that when the homepage is accessed, the application should prompt the user for valid credential (username and password). In your implementation, make it so that the valid username/password pair is 'administrator/test1234'. Take screenshots of your work (showing the steps you followed/changes applied).

- **Testing:**

- For large and complex software systems, Orchestration works better than Choreography.

True/False?

- In a layered architectural design/solution, Classes in the service layer are allowed to call classes of the data access layer. True/False?

- In a layered architectural design/solution, Classes in the data access layer are allowed to call classes of the domain layer. True/False?

- In a layered architectural design/solution, Classes in the domain layer are allowed to call classes of the data access layer. True/False?

- A characteristic of good class design is low cohesion and loose coupling. True or False?

- (25 points) Problem Statement/Description of MIU eRegistrar system (see the sample project):

1. (5 points) Draw the use case diagram
2. (5 points) Draw the user story map
3. (5 points) Draw the Analysis-level UML class diagram of the domain model
4. (10 points) Draw the Design-level UML class diagram, including the following architecture and design choices in your consideration:
  1. The data for the eRegistrar system will be stored/persisted in a Database.
  2. A Layered architectural style
  3. The system will have a Graphical User Interface (GUI)

For this diagram, make sure to clearly group the classes into their specific architectural layers. For your class diagrams, make sure to show all important aspects in the diagram. i.e. Show all the important classes, attributes, methods, relationships, multiplicity, role etc. For all your classes also show what kind of class it is (i.e. entity, domain service, etc.).

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