**Digital Nurture 4.0 Deep Skilling**

**Week 4**

**Hands on 1**

**1.Create a Spring Web Project using Maven**

**Code:**

1. src/main/java - Folder with application code
2. src/main/resources - Folder for application configuration
3. src/test/java - Folder with code for testing the application
4. SpringLearnApplication.java - Walkthrough the main() method.

A screenshot of a computer

Description automatically generated

1. Purpose of @SpringBootApplication annotation
2. pom.xml
   1. Walkthrough all the configuration defined in XML file
   2. Open 'Dependency Hierarchy' and show the dependency tree.

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**Output :**

**A screenshot of a computer

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**Hands on 4**

**2.1Spring Core – Load Country from Spring Configuration XML**

**SpringLearnApplication**

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**Country.java**

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**Country.xml**

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**Pom.xml dependencies**

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**Output :**

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**3.Hello World RESTful Web Service**   
  
Write a REST service in the spring learn application created earlier, that returns the text "Hello World!!" using Spring Web Framework. Refer details below:

**Code :**

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**A computer screen shot of a computer code

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**Dependencies**

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**Output :**

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**4.REST - Country Web Service   
  
Write a REST service that returns India country details in the earlier created spring learn application.**

**Code :**

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**Country.java**

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**Country.xml**

**A screenshot of a computer code

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**CountryController.java**

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**Dependencies :**

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**Output :**

**Port 8083 with header**

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Description automatically generated**

**A screenshot of a computer

Description automatically generated**

**Postman :**

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**5.REST - Get country based on country code   
  
Write a REST service that returns a specific country based on country code. The country code should be case insensitive.**

**Code :**

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**Country.xml**

**A screenshot of a computer code

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**Country.java**

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**CountryService.java**

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**Output :**

**Port : 8083 with header**

**A screenshot of a computer

Description automatically generated**

**A close-up of a computer screen

Description automatically generated**

**Postman :**

**A screenshot of a computer

Description automatically generated**

**6.Create authentication service that returns JWT**

**Code :**

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**A screenshot of a computer code

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**OUTPUT :**

**A screenshot of a computer

Description automatically generated**

A screenshot of a black box

Description automatically generated