1.CREATING A SPRING BOOT APPLICATION

- We have to go **start.spring.io** this will help us to add the required dependencies and it will also configure it.
- After visiting **start.spring.io** you will have to select the Maven project and the language in which you have to develop. I have selected Java and leave the default selection of Spring Boot, Java and in Packaging select of your requirement.
- Now we have to select the dependencies which we want in our project.

- After selecting the dependencies you will have to click on generate to generate a zip file .
- Next step is to browse the zip file and extract it.

- After extracting the file, open Eclipse and click on
  File <Import<Maven<Existing Maven Project
- Browse for the extracted folder select it and click on finish and it will create a required environment for you.

- After finishing the project you will get the structure like this:
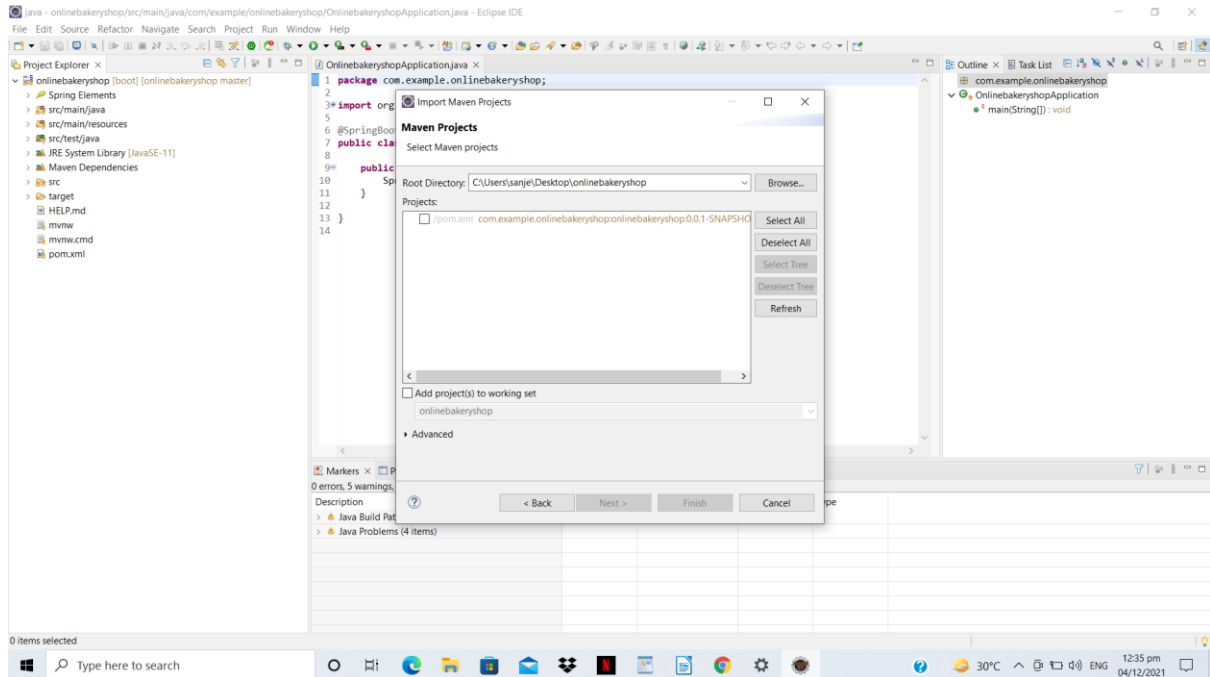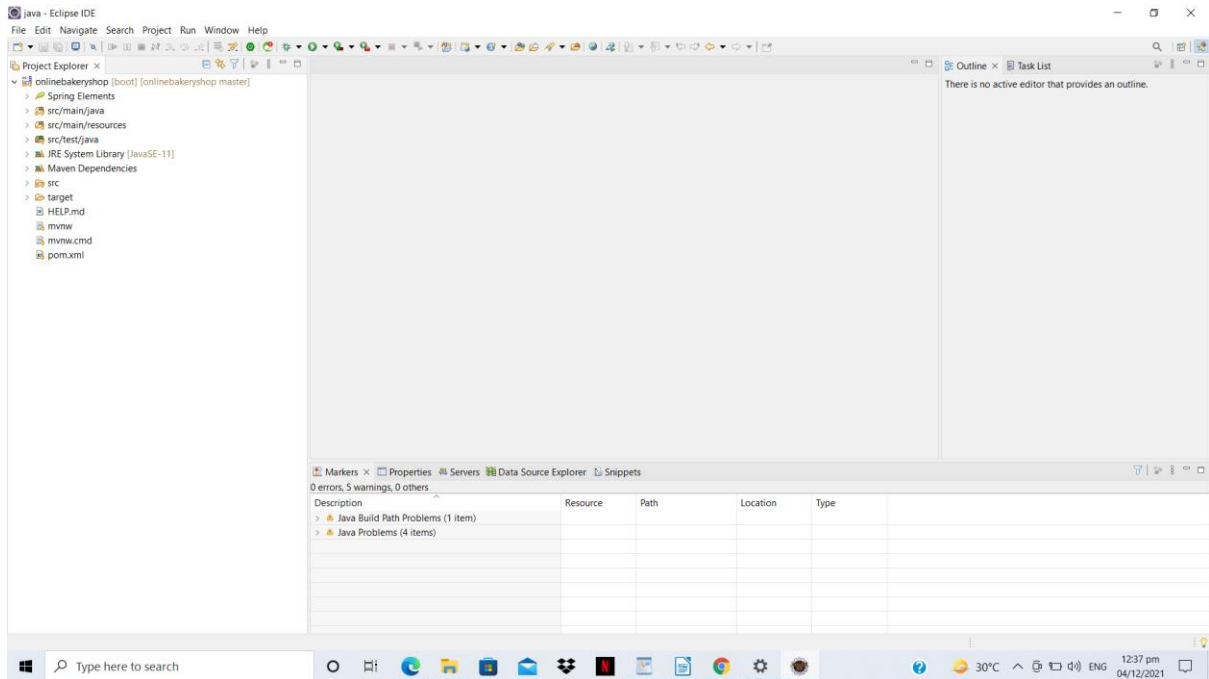
2. Project Packaging Structure

src:

- **src/main/java** – This folder contains Java source code packages and classes
- **src/main/resources** – This folder contains non-java resources, such as property files and Spring configuration, Css file, Html etc.

package:

- **src/test/java** – This folder contains the test source code packages and classes.
- **src/test/resources** – This folder contains non-Java resources, such as property files and Spring configuration.
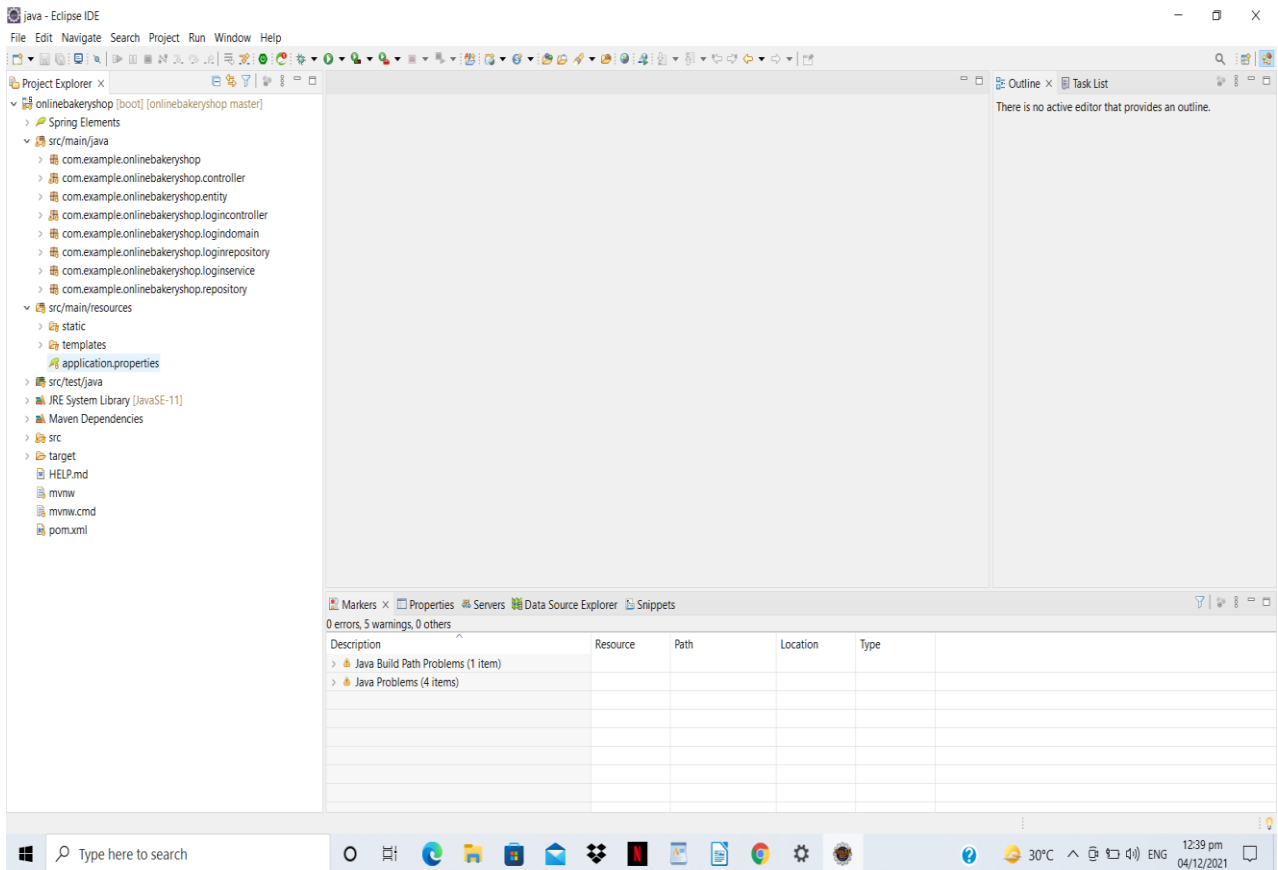
3. Dependencies and Properties Folder

- **pom.xml** contains the added dependencies which we have selected in start.spring.io.
- **application.properties** contains the connection between the application and Database.
- **JRE System Library** contains the libraries file and jar files.
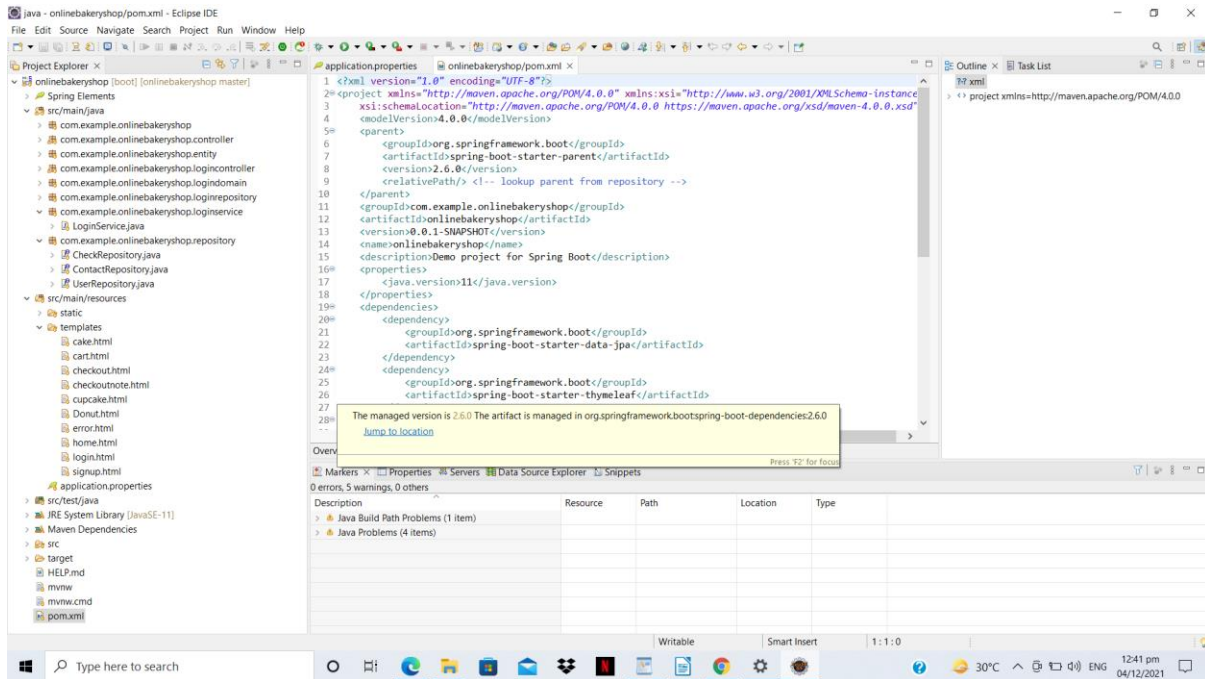
4.Creating Packages,Interfaaces,Classes:

src/main/java

1. Package(com.example.onlinebakeryshop)
   - Class(Application.java)
2. Package(com.example.onlinebakeryshop.controller)
   - Class(APIController.java)
   - Class(HomeController.java)
   - Class(LoginController.java)
3. Package(com.example.onlinebakery.entity)
   - Class(CheckoutData.java)
   - Class(ContactData.java)
   - Class(LoginData.java)
   - Class(UserData.java)
4. Package(com.example.onlinebakeryshop.logindomain)
   - Class(Login.java)

5. Package(com.example.onlinebakeryshop.loginservices)
   - Class(LoginService.java)
6. Package(com.example.onlinebakeryshop.repository)
   - Interface(CheckRepository.java)
   - Interface(ContactRepository.java)
   - Interface(loginRepository.java)
   - Interface(UserRepository.java)

src/test/java

1. Package(com.example.onlinebakeryshop)
   - Class(ApplicationTests.java)

5.Test Case

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer ×
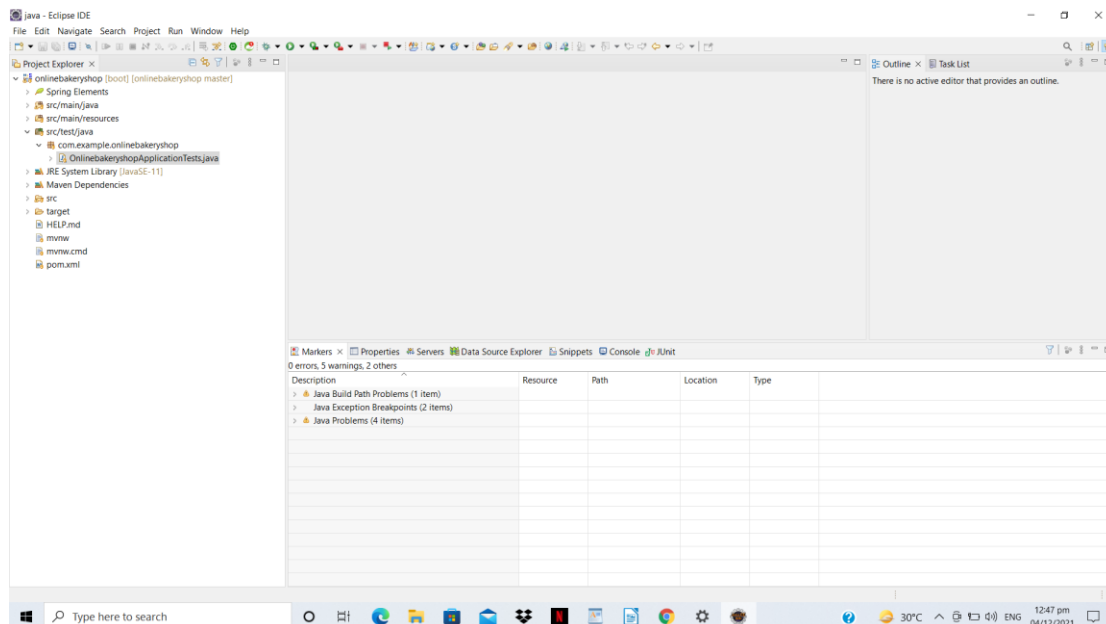
- onlinebakeryshop [boot] [onlinebakeryshop master]
  - Spring Elements
  - src/main/java
  - src/main/resources
  - src/test/java
    - com.example.onlinebakeryshop
      - OnlinebakeryshopApplicationTests.java
  - JRE System Library [JavaSE-11]
  - Maven Dependencies
  - src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml

application.properties   onlinebakeryshop/pom.xml   OnlinebakeryshopApplicationTests.java ×

```
 1  package com.example.onlinebakeryshop;
 2
 3  import org.junit.jupiter.api.Test;
 4
 5
 6  @SpringBootTest
 7  class OnlinebakeryshopApplicationTests {
 8
 9      @Test
10      void contextLoads() {
11      }
12
13  }
14
```

Outline ×   Task List

- com.example.onlinebakeryshop
  - OnlinebakeryshopApplicationTests
    - contextLoads() : void

Markers   Properties   Servers   Data Source Explorer   Snippets   Console ×   JUnit

`<terminated> OnlinebakeryshopApplicationTests [JUnit] C:\Users\sanje\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe  (4 Dec 2021, 12:44:05 pm – 12:44`

```
2021-12-04 12:44:30.540  INFO 12024 --- [           main] c.e.o.OnlinebakeryshopApplicationTests   : Starting OnlinebakeryshopApplicationTests using Java 17.
2021-12-04 12:44:30.549  INFO 12024 --- [           main] c.e.o.OnlinebakeryshopApplicationTests   : No active profile set, falling back to default profiles:
2021-12-04 12:44:32.077  INFO 12024 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mo
2021-12-04 12:44:32.251  INFO 12024 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 154 ms. Foun
2021-12-04 12:44:33.781  INFO 12024 --- [           main] o.hibernate.jpa.internal.util.LogHelper  : HHH000204: Processing PersistenceUnitInfo [name: default
2021-12-04 12:44:33.939  INFO 12024 --- [           main] org.hibernate.Version                    : HHH000412: Hibernate ORM core version 5.6.1.Final
2021-12-04 12:44:34.389  INFO 12024 --- [           main] o.hibernate.annotations.common.Version   : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2021-12-04 12:44:34.806  INFO 12024 --- [           main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Starting...
2021-12-04 12:44:36.007  INFO 12024 --- [           main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Start completed.
2021-12-04 12:44:36.067  INFO 12024 --- [           main] org.hibernate.dialect.Dialect            : HHH000400: Using dialect: org.hibernate.dialect.MySQL8Di
2021-12-04 12:44:38.682  INFO 12024 --- [           main] o.h.e.t.j.p.i.JtaPlatformInitiator       : HHH000490: Using JtaPlatform implementation: [org.hibern
2021-12-04 12:44:38.751  INFO 12024 --- [           main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence uni
2021-12-04 12:44:40.688  WARN 12024 --- [           main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore
2021-12-04 12:44:43.831  INFO 12024 --- [           main] c.e.o.OnlinebakeryshopApplicationTests   : Started OnlinebakeryshopApplicationTests in 14.106 secon
2021-12-04 12:44:44.912  INFO 12024 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'd
2021-12-04 12:44:44.918  INFO 12024 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Shutdown initiated...
2021-12-04 12:44:44.967  INFO 12024 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Shutdown completed.
```

Type here to search

30°C   ENG   12:45 pm   04/12/2021

File Edit Navigate Search Project Run Window Help

🔲 Markers 🔲 Properties 🔲 Servers 🔲 Data Source Explorer 🔲 Snippets 🔲 Console ⌗ 🔍 Search

\<terminated\> C:\Program Files\Java\jdk-16.0.2\bin\javaw.exe (03-Dec-2021, 3:09:44 pm)

```
15:09:47.775 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Loaded default TestExecutionListener class names from location [META-INF/spring.factories]: [org.springfra
15:09:47.788 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Using TestExecutionListeners: [org.springframework.test.context.web.ServletTestExecutionListener@32a68f4f,
15:09:47.791 [main] DEBUG org.springframework.test.context.support.AbstractDirtiesContextTestExecutionListener - Before test class: context [DefaultTestContext@4b6e2263 testClass = ApplicationTests, testIns
15:09:47.835 [main] DEBUG org.springframework.boot.ApplicationServletEnvironment - Activating profiles []
15:09:47.837 [main] DEBUG org.springframework.test.context.support.TestPropertySourceUtils - Adding inlined properties to environment: {spring.jmx.enabled=false, org.springframework.boot.test.context.Spring
```

```
  .   ___          _            __ _ _
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 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.6.0)
```

```
2021-12-03 15:09:48.042  INFO 5768 --- [           main] c.e.o.tour.ApplicationTests              : Starting ApplicationTests using Java 16.0.2 on KUMRAZZ with PID 5768 (started by KUMRAZZ in C:\Users\KUMRA
2021-12-03 15:09:48.043  INFO 5768 --- [           main] c.e.o.tour.ApplicationTests              : No active profile set, falling back to default profiles: default
2021-12-03 15:09:48.594  INFO 5768 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2021-12-03 15:09:48.644  INFO 5768 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 44 ms. Found 4 JPA repository interfaces.
2021-12-03 15:09:49.177  INFO 5768 --- [           main] o.hibernate.jpa.internal.util.LogHelper  : HHH000204: Processing PersistenceUnitInfo [name: default]
2021-12-03 15:09:49.224  INFO 5768 --- [           main] org.hibernate.Version                    : HHH000412: Hibernate ORM core version 5.6.1.Final
2021-12-03 15:09:49.358  INFO 5768 --- [           main] o.hibernate.annotations.common.Version   : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2021-12-03 15:09:49.493  INFO 5768 --- [           main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Starting...
2021-12-03 15:09:49.906  INFO 5768 --- [           main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Start completed.
2021-12-03 15:09:49.940  INFO 5768 --- [           main] org.hibernate.dialect.Dialect            : HHH000400: Using dialect: org.hibernate.dialect.MySQL8Dialect
2021-12-03 15:09:50.701  INFO 5768 --- [           main] o.h.e.t.j.p.i.JtaPlatformInitiator       : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJta
2021-12-03 15:09:50.708  INFO 5768 --- [           main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2021-12-03 15:09:51.384  WARN 5768 --- [           main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view re
2021-12-03 15:09:51.698  INFO 5768 --- [           main] o.s.b.a.w.s.WelcomePageHandlerMapping    : Adding welcome page template: index
2021-12-03 15:09:52.010  INFO 5768 --- [           main] c.e.o.tour.ApplicationTests              : Started ApplicationTests in 4.172 seconds (JVM running for 4.867)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 4.698 s - in com.example.online_tourism.tour.ApplicationTests
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  6.763 s
[INFO] Finished at: 2021-12-03T15:09:52+05:30
[INFO] ------------------------------------------------------------------------
```