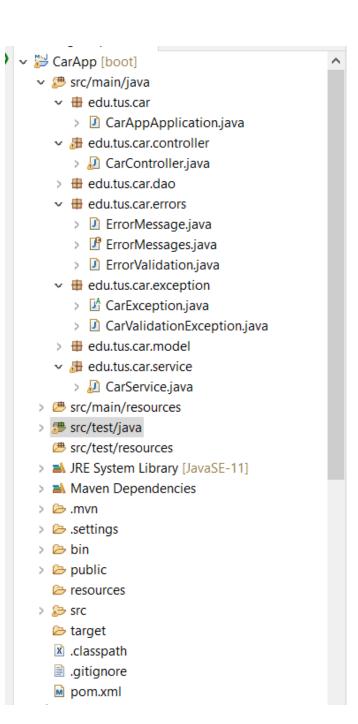
Continuous Build and Delivery Testing Assessment Sample -15% Duration – 2 hours

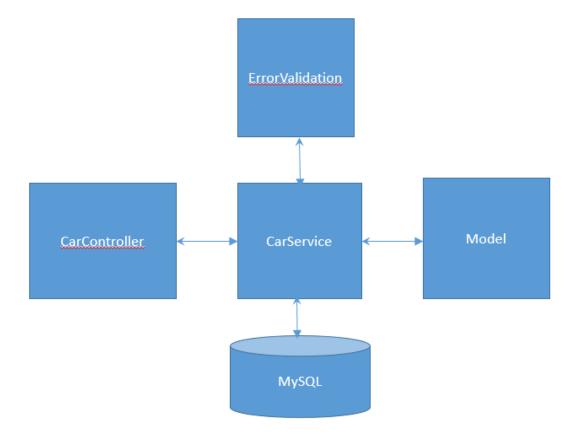
Application

You are given the CarApp code. Import the maven project into your workspace. Don't make any changes to the code you have been given.

This exam is open book. All communication/social media apps are prohibited.

Upload your test code to Moodle placeholder (CarApplT.java, CarrControllerTest and ErrorValidationTest)





The following User Story is implemented:-

As an administrator I want to add a car to the car management application so that I can offer it for sale.

- 1. Success car added with fields make, model, year and color. Status code 200 returned with car details.
- 2. Fail only certain makes and models are allowed Status code 400 returned with error message for all others. The following 4 combinations of make/model are allowed.

```
("MERCEDES", "E220");
("AUDI", "A4");
("VOLKSVAGEN", "ARTEON");
("BMW", "320");
```

3. Cars older than 2020 are not accepted. Status code 400 returned with error message

Complete the following tests:



Step 1: Complete the tests in ErrorValidationTest that tests the methods in the ErrorValidation class. These tests can run outside of the Springboot context.

The "buildCar" method is given to create car objects if you wish to use it.

[20 marks]

Step 2: Complete the tests in CarControllerTest that the controller layer and mocks the Service layer. [40 marks]

Step 3: Complete the tests in CarAppIT. These are integration tests using TestRestTemplate. [40 marks]

When you run all the tests you should get code coverage as shown.

ement		Co	overage	Covered Instru
✓ ➡ CarApp ✓ ➡ src/main/java		_	99.1 % 97.7 %	582 213
		-		
edu.tus.car			37.5 %	3
> 🖸 CarAppA	pplication.java	-	37.5 %	3
> # edu.tus.car.co	ontroller		100.0 %	24
> # edu.tus.car.e	rrors		100.0 %	106
> # edu.tus.car.e	xception		100.0 %	8
> # edu.tus.car.m	nodel		100.0 %	38
> # edu.tus.car.se	ervice		100.0 %	34
> # src/test/java			100.0 %	369