**TestVagrant hiring challenge for applicants: Code Review and Changes**

* This project is designed to run on Mac, Linux and Window system, therefore in all three classes i.e FlightBookingTest.java, HotelBookingTest.java, SignInTest.java method setDriverPath()is defined.

Also Driver binaries are placed in project which is increasing project size and may require change when new version is available in market.

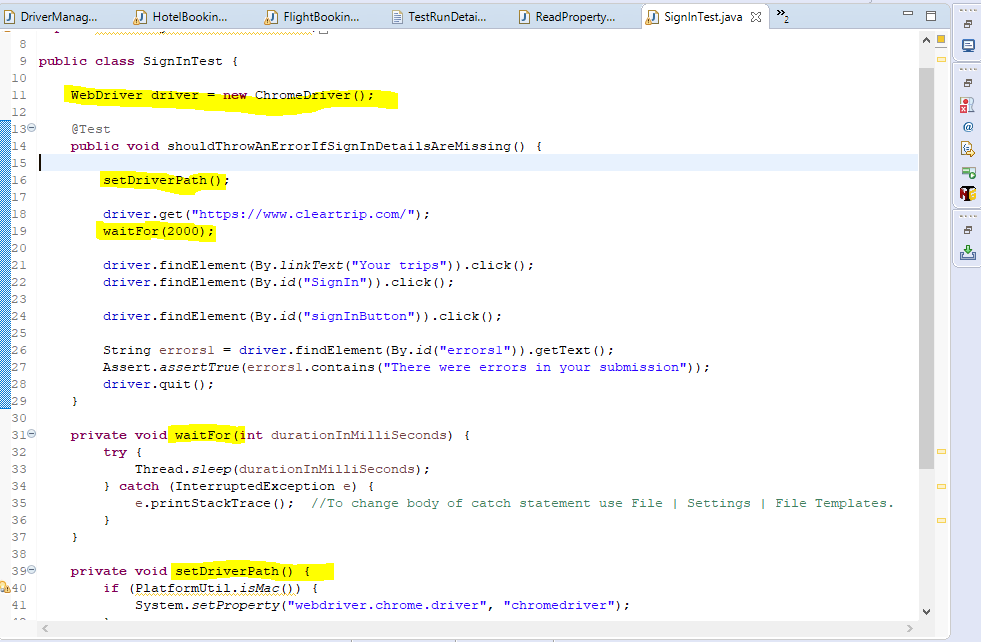
Changes done:

* All driver binaries are removed from project.
* Implemented Bonigracia’s webdriver manager, this will not only help to run program in multiple OS but it will support multiple browser without worrying about binary files.
* With the help of WebDriver manager we can remove setDriverPath()
* Change done to Framework structure: For Code reusability and to follow POM framework, creating a new folder src/main/test and moving all test files to src/main/test
* To improve code reusability DriverManager.java added to testVagrantCodingRound.driver
* All the input data is provided in code itself:
  + Changes done:
    - Input data moved to TestRunDetails.properties file in src folder
    - To read this property file ReadProperty.java is added in package testVagrantCodingRound.ReadProperty

**Modification in Test Files:**

1. SignInTest.java

Code that require improvement:

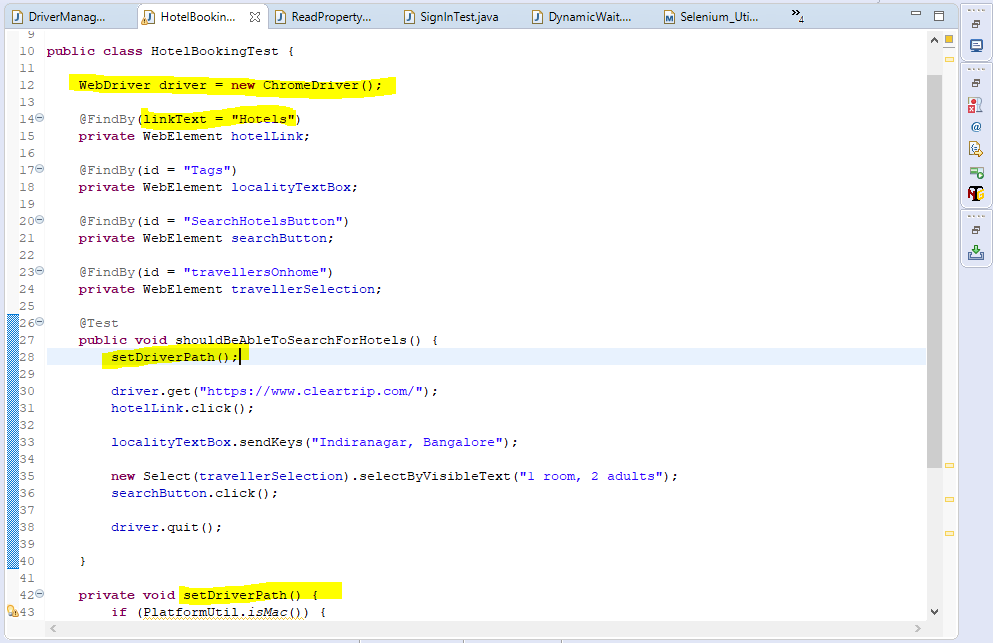


1. Method uses static wait.
2. setDriver Path is no longer required, even if we don’t use Webdrver manager, we can create separate utility for this method
3. POM is not followed, link text is used
4. Hardcoded values are used for url
5. SignIn and Error message is available in frame, frame is not switched

**Improvements done:**

1. Instead of Static wait, Explicit wait is added
2. Due to use of Webdriver manager setDriverPath() is removed
3. POM model is used.
4. Instead of link text, using xpath or id.
5. Hardcoded values are fetched from TestRunDetails.properties file
6. @AfterTest and @BeforeTest are added for test setup and clearance

2.HotelBookingTest.java



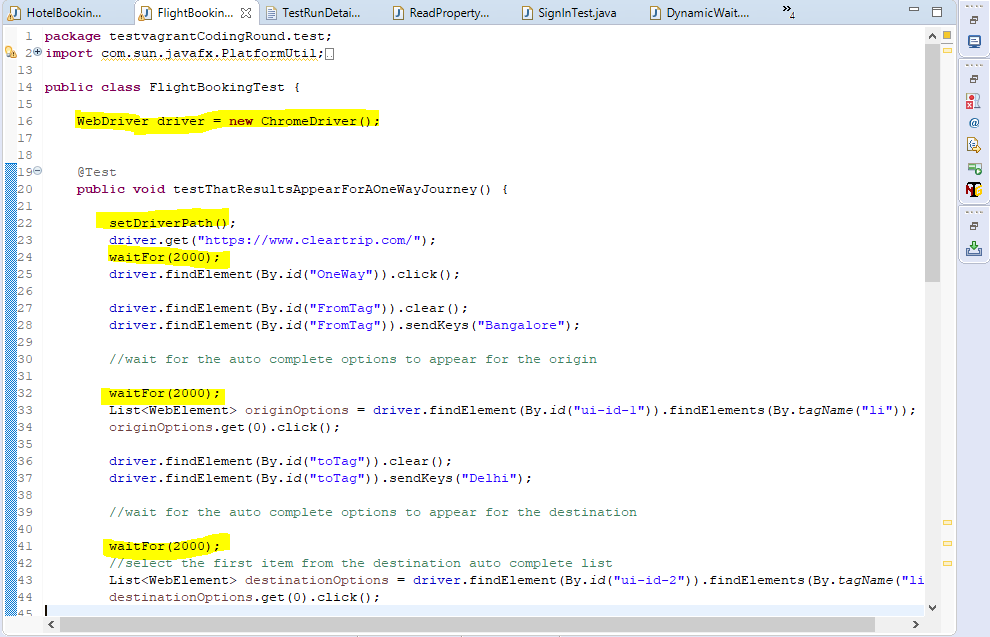
Code that require improvement:

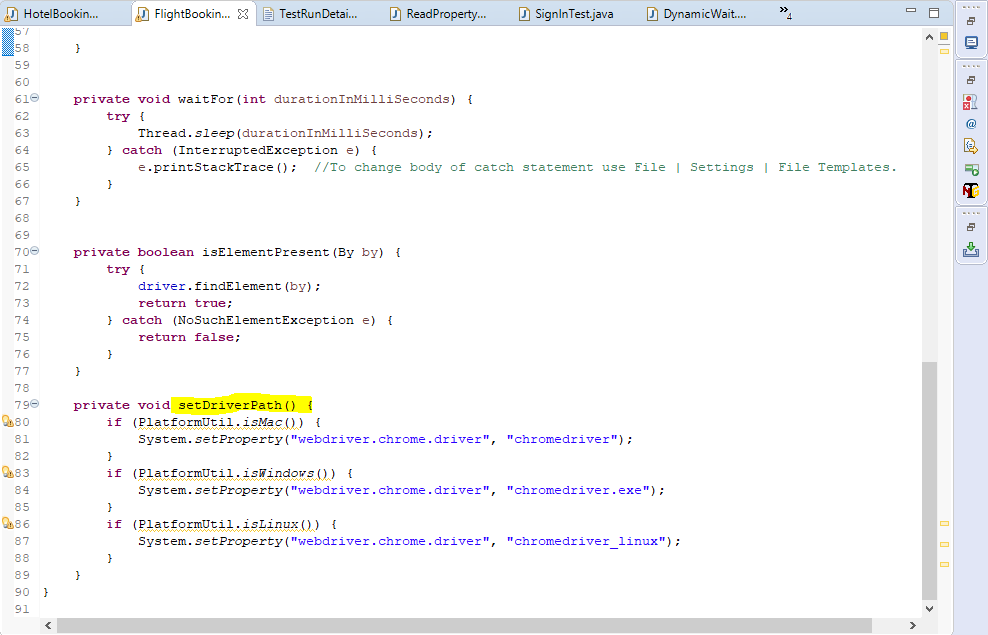
1. Method uses static wait.
2. setDriver Path is no longer required, even if we don’t use Webdrver manager, we can create separate utility for this method
3. Hardcoded values are used for url and location
4. link text is used

**Improvements done:**

1. Instead of Static wait, Explicit wait is added
2. Due to use of Webdriver manager setDriverPath() is removed
3. Instead of link text, using xpath or id.
4. Hardcoded values are fetched from TestRunDetails.properties file
5. @AfterTest and @BeforeTest are added for test setup and clearance
6. Assertion added to check if results are displayed in next page

3.FlightBookingTest.java





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**Parallel Execution:**

All test cases are modified for parallel execution, **testing.xml** has been added to support parallel execution.

By changing thread-count number of classes to run parallel can be decided.

To run test case in parallel, run from testing.xml