The technologies used for this project are:

1. Java 1.8.0\_111
2. Maven 3.3.9
3. Eclipse Mars
4. Junit
5. Cucumber

For this project Cucumber BDD was used that supports Behaviour Driven Development. It’s used to help define software application behaviour in plain English text format using simple grammar defined by a language called Gherkin. Cucumber is written in Ruby, but also can be written in other languages but not limited to Java, C# and Python.

The reason for choosing Cucumber BDD is to make application more readable in-order to understand the business behaviour and to test the business features to give maximum test coverage.

The reason for choosing Maven is that it one of Software Project Management tool which provides new concept of project object model (POM). Maven allows the developer to automate the process of the creation of the initial folder structure, performing the compilation and testing and packaging and deployment of the final product. It also cuts down the tasks in build process. It handles compilation, distribution, documentation, team collaboration and other tasks seamlessly. Maven increases reusability and takes care of most of build related tasks. A very significant aspect of Maven is the use of repositories to manage jar files.

Junit is used to implement Unit testing in Java and supports to add annotations to write unit tests, to run tests using TestRunner class, to write test suites and also reporting of test results.

By using the page object model we can make non-brittle test code and reduce or eliminate duplicate test code. Beside of that it improves the readability and allows us to create interactive documentation. Last but not least, we can create tests with less keystroke. An implementation of the page object model can be achieved by separating the abstraction of the test object and the test scripts.

To run this test project the prerequisite technologies to be installed are:

1. Java 1.8.0\_111
2. Maven 3.3.9
3. Eclipse Mars
4. Junit
5. Cucumber

Extract the file RyanairFlightBooking zip file and import into Eclipse.

To run the project right click on the file TestRunner.java which is in ‘runner’ package and choose ‘Run As’ -> Junit Test.

All the results are stored in the target/html/index.html file