TFL Coding Challenge:

The below sections highlights of the process of creation of TFL coding challenge using

SpecFlow C# framework and follows behavior driver development approach and ensuring data protection by implementing concepts like encapsulation, inheritance etc.

:

* Added SpecFlow Extension to Visual Studio
* Created new project
* Added all necessary packages from Manage NuGet package manager.
* Create 3 feature files:

1. Feature1 – Plan a Journey – covering the first 3 scenarios from coding challenge
2. Feature 2 – Plan a journey with invalid data
3. Feature 3 – Plan a journey with blank From and To stations.

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* Created corresponding StepDefinition files
* Feature1StepDefinition File consist of 3 testcases.
* Implemented Hooks.cs class in Hooks folder which handles all hooks in framework
* [BeforeFixtures],[AfterFixture] contains driver trigger, report trigger.
* [AfterScenario] contains container instance
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* This approach helped me run

1. 3 cases from Feature 1 on single instance and achieved continuous execution.
2. Feature 2 has 1 case – independent case with new instance
3. Feature 3 has 1 case – independent case with ne instance.

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* Achieved report generation by using implementing Extent Reports
* Created a folder called PageObjects which has a class called PageObject.cs

Which contains all the element locators achieving encapsulation.

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* Created Utility folder which contains:  
   Base.cs – user defined reusable methods

ExtentReport – handles reports setup

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* Html report will be generated in TestResults – index.html

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