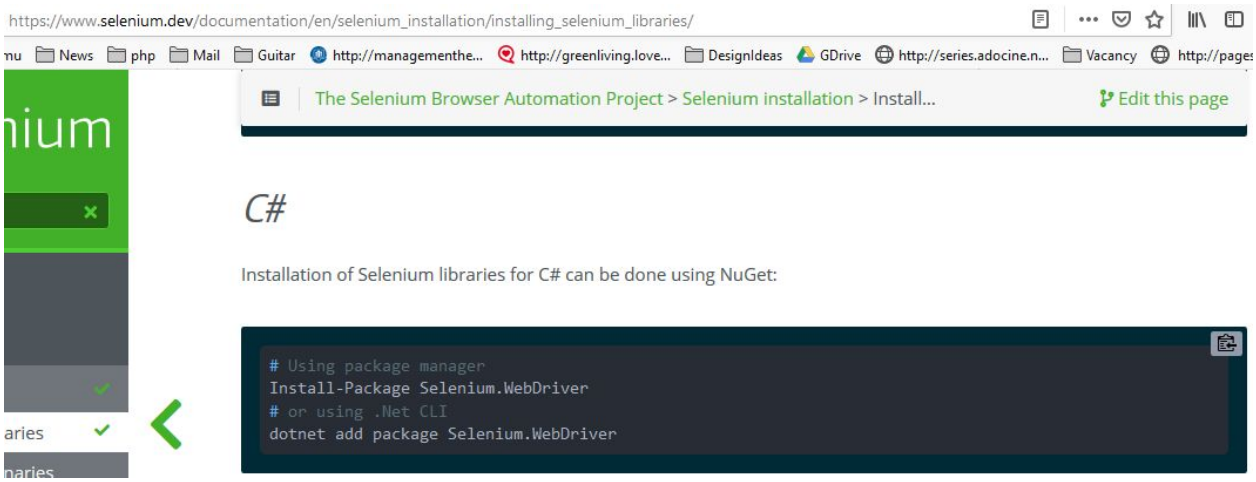
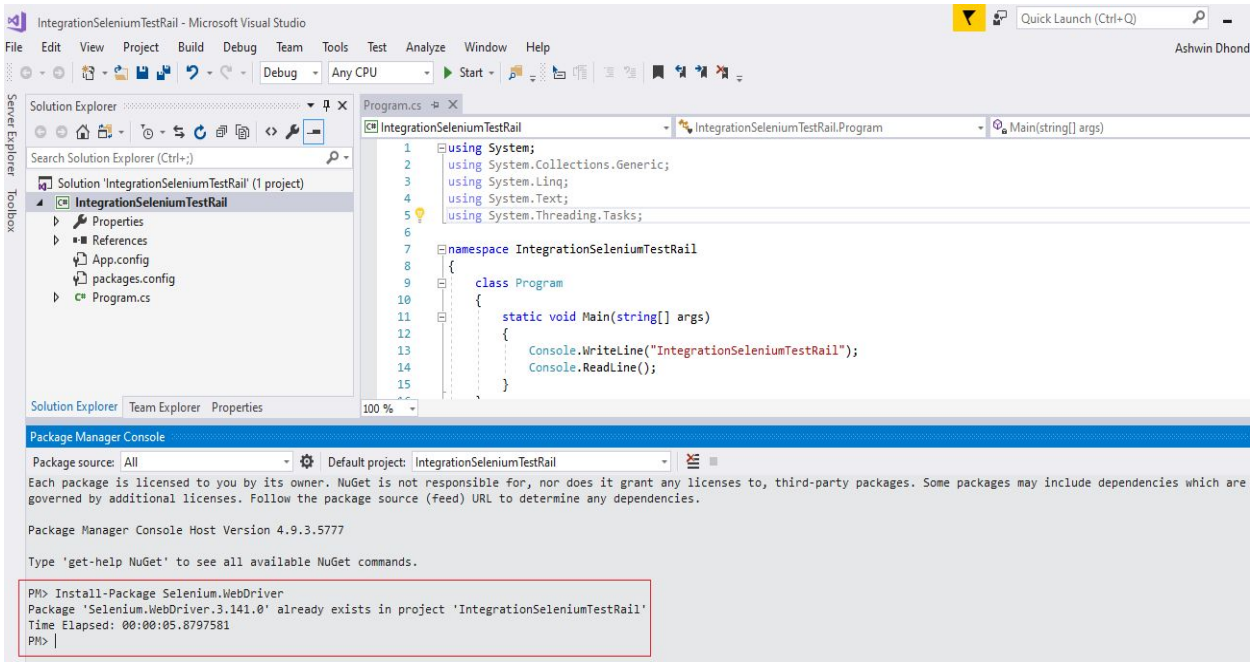
Part 1 – Integration of Selenium

Installing Selenium libraries

https://www.selenium.dev/documentation/en/selenium_installation/installing_selenium_libraries/

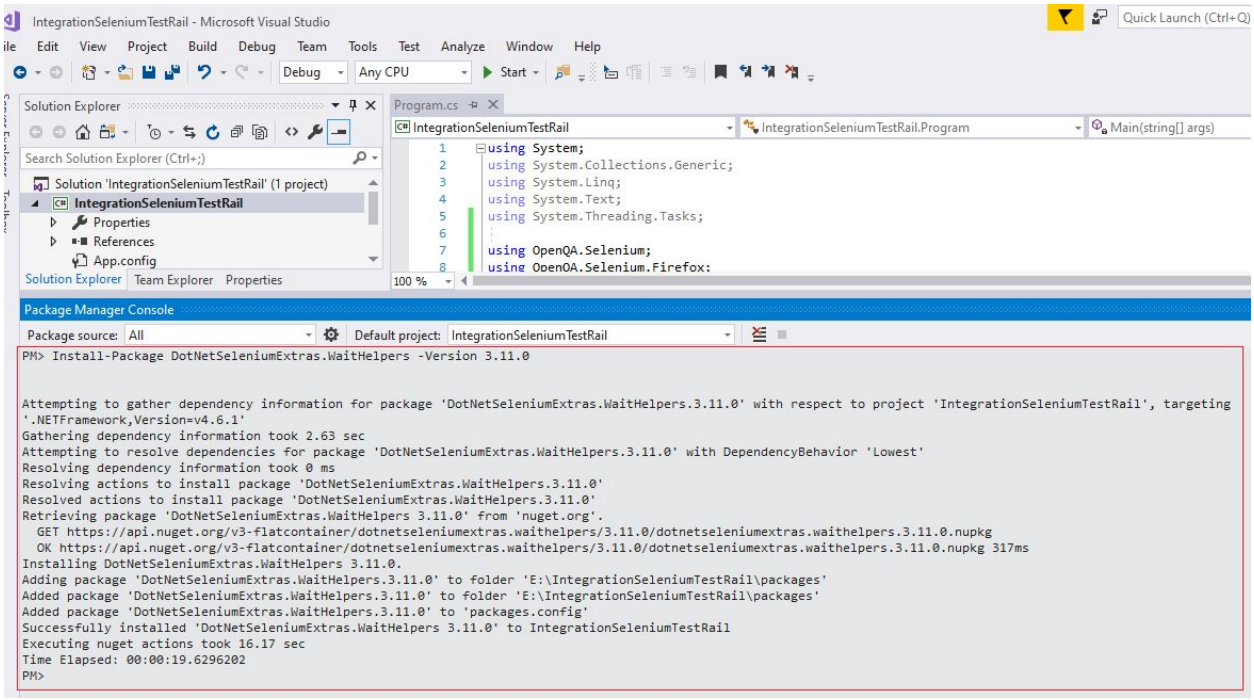
Using package manager

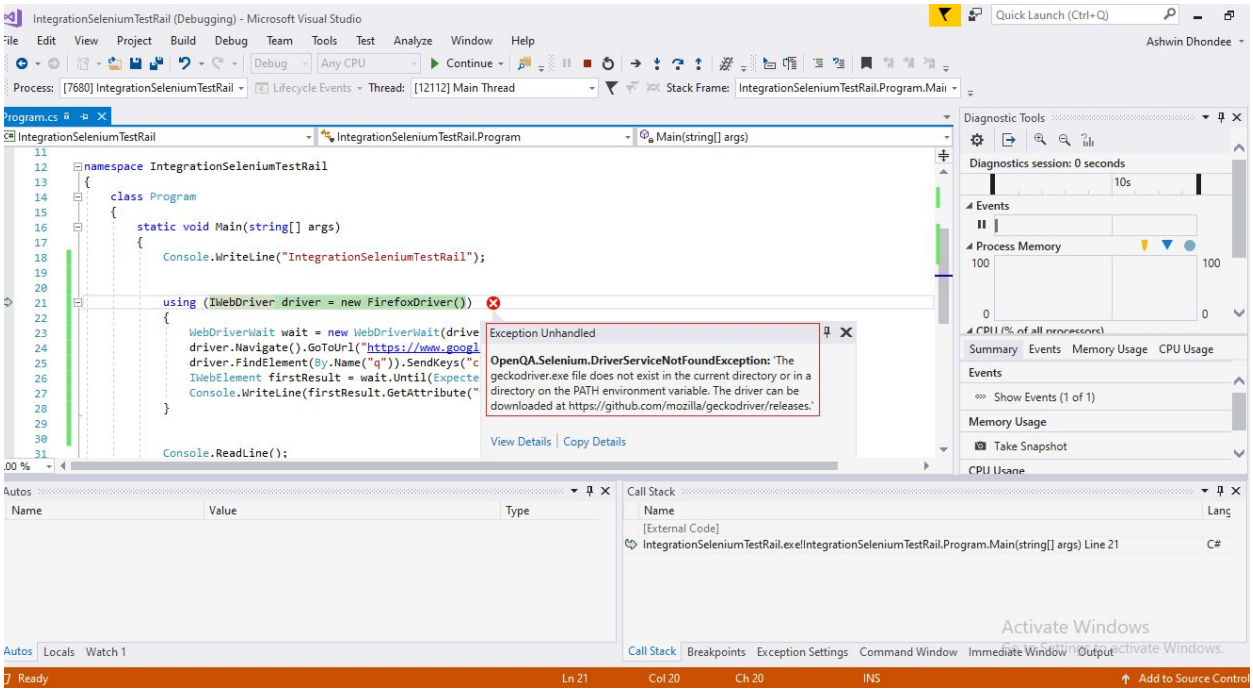




Install package DotNetSeleniumExtras

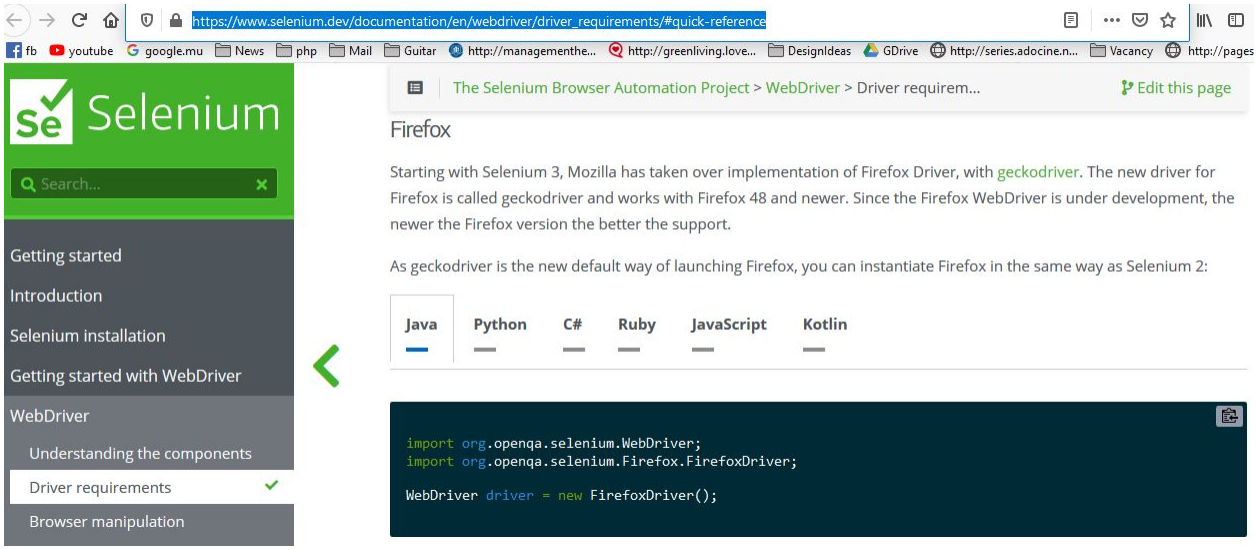
```
Install-Package DotNetSeleniumExtras.WaitHelpers -Version 3.11.0
```

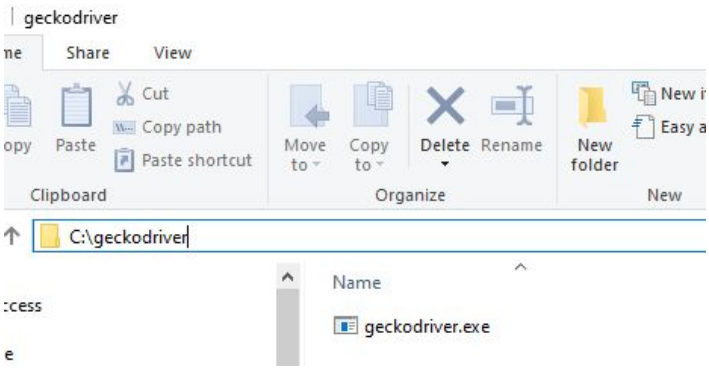


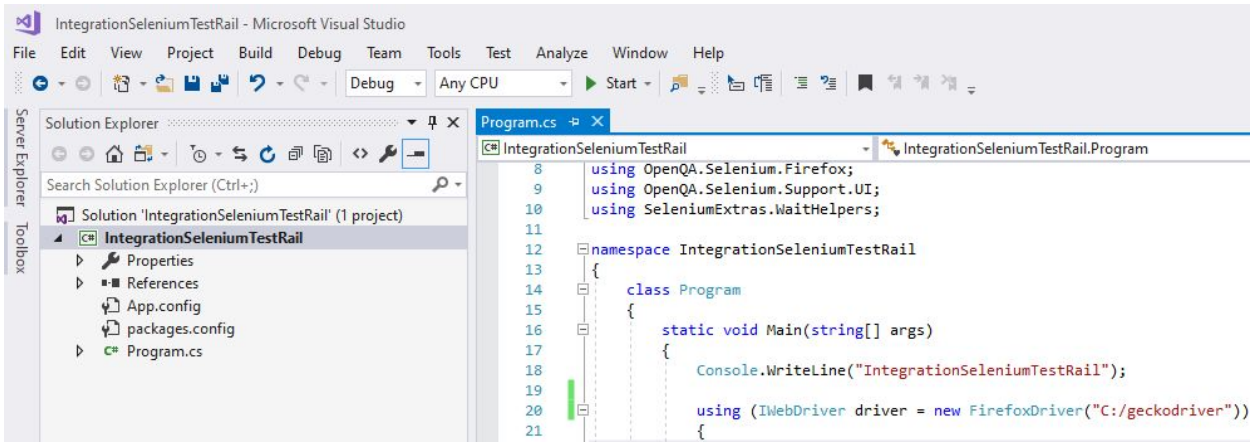


Installing geckodriver for Firefox

https://www.selenium.dev/documentation/en/webdriver/driver_requirements/#quick-reference







Part 2 – Integration with TestRail

Go to http://docs.gurock.com/testrail-api2/bindings-dotnet

Download ZIP file containg API bindings and required library.

ecure | docs.gurock.com/testrail-api2/bindings-dotnet

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API Binding: .NET

The API binding for .NET can be used to access TestRail's API from .NET (for example, C# or VB.NET). It provides the basic functionality to authenticate API requests, provides seamless JSON and UTF-8 encoding/decoding and has generic support for read and write requests. Please see below for several examples on how to use the API binding.

The source code for the binding can be found on GitHub:

TestRail API binding for .NET (ZIP)
The GitHub repository with the API bindings as ZIP download

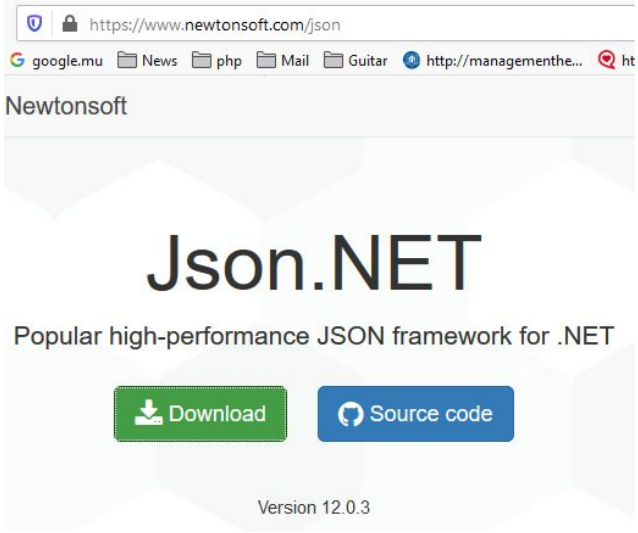
Setup & installation

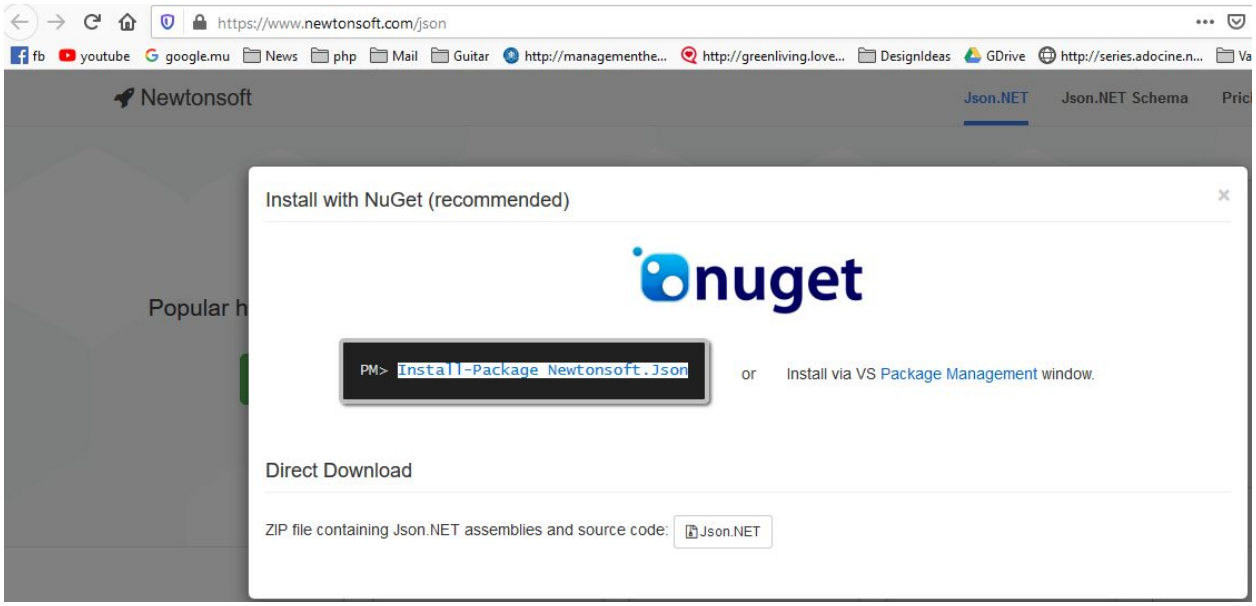
Please download the ZIP from the above location and extract it to a directory of your choice. The binding for .NET can be located in the "dotnet" sub-directory. Please add the contained project to your application or project in Visual Studio. The API binding also has a separate, external dependency on the Json.NET library which can downloaded here:

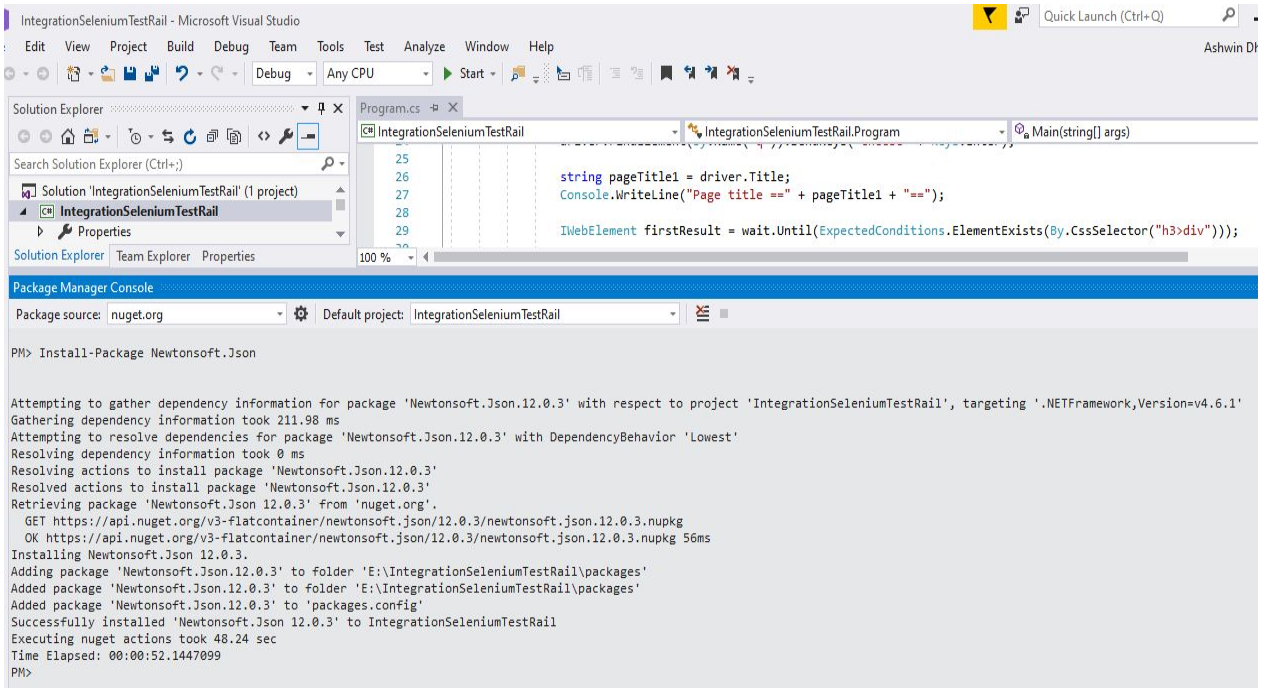
http://james.newtonking.com/json

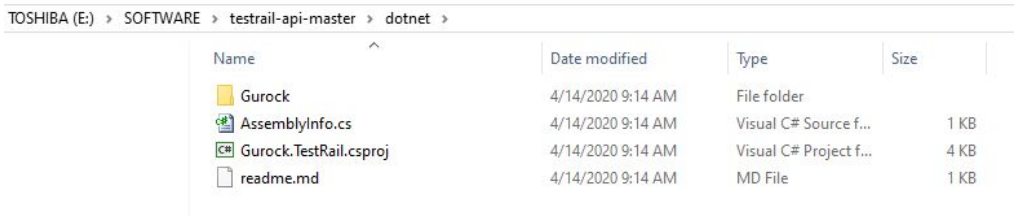
You can then use the API binding as follows:

```
using System;
using System.Collections.Generic;
```

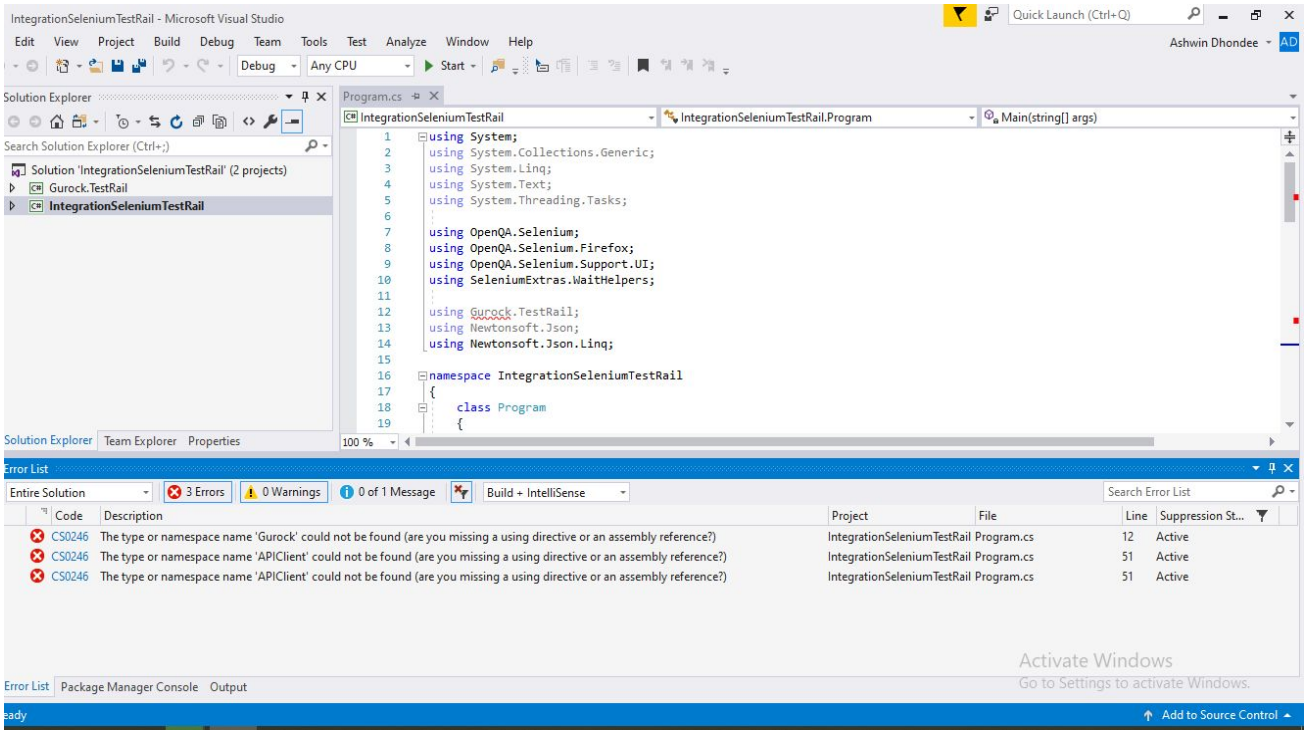



https://www.newtonsoft.com/json
Newtonsoft
Json.NET
Json.NET Schema
Install with NuGet (recommended)
nuget
PM> Install-Package Newtonsoft.Json
or
Install via VS Package Management window.
Direct Download
ZIP file containing Json.NET assemblies and source code:
Json.NET


IntegrationSeleniumTestRail - Microsoft Visual Studio
Quick Launch (Ctrl+Q)
Edit View Project Build Debug Team Tools Test Analyze Window Help
Debug
Any CPU
Start
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'IntegrationSeleniumTestRail' (1 project)
IntegrationSeleniumTestRail
Properties
Program.cs
IntegrationSeleniumTestRail
IntegrationSeleniumTestRail.Program
Main(string[] args)
string pageTitle1 = driver.Title;
Console.WriteLine("Page title ==" + pageTitle1 + "==");
IWebElement firstResult = wait.Until(ExpectedConditions.ElementExists(By.CssSelector("h3>div")));
Package Manager Console
Package source: nuget.org
Default project: IntegrationSeleniumTestRail
PM> Install-Package Newtonsoft.Json
Attempting to gather dependency information for package 'Newtonsoft.Json.12.0.3' with respect to project 'IntegrationSeleniumTestRail', targeting '.NETFramework,Version=v4.6.1'
Gathering dependency information took 211.98 ms
Attempting to resolve dependencies for package 'Newtonsoft.Json.12.0.3' with DependencyBehavior 'Lowest'
Resolving dependency information took 0 ms
Resolving actions to install package 'Newtonsoft.Json.12.0.3'
Resolved actions to install package 'Newtonsoft.Json.12.0.3'
Retrieving package 'Newtonsoft.Json 12.0.3' from 'nuget.org'.
GET https://api.nuget.org/v3-flatcontainer/newtonsoft.json/12.0.3/newtonsoft.json.12.0.3.nupkg
OK https://api.nuget.org/v3-flatcontainer/newtonsoft.json/12.0.3/newtonsoft.json.12.0.3.nupkg 56ms
Installing Newtonsoft.Json 12.0.3.
Adding package 'Newtonsoft.Json.12.0.3' to folder 'E:\IntegrationSeleniumTestRail\packages'
Added package 'Newtonsoft.Json.12.0.3' to folder 'E:\IntegrationSeleniumTestRail\packages'
Added package 'Newtonsoft.Json.12.0.3' to 'packages.config'
Successfully installed 'Newtonsoft.Json 12.0.3' to IntegrationSeleniumTestRail
Executing nuget actions took 48.24 sec
Time Elapsed: 00:00:52.1447099
PM>



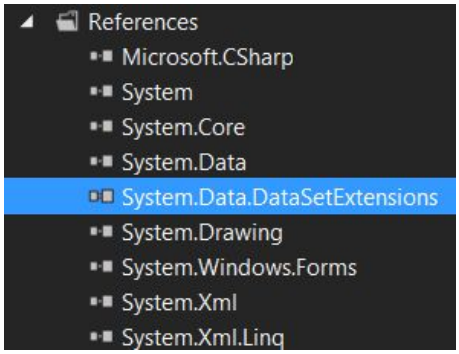
Error when compiling



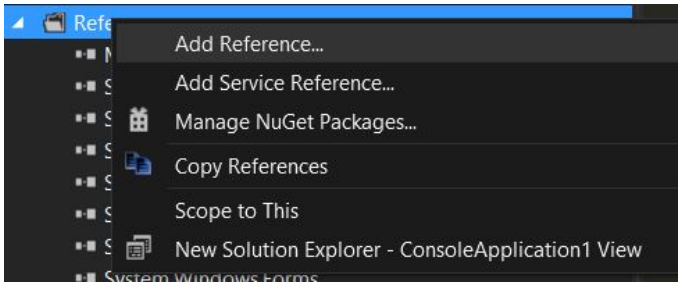
Do the following manipulations:

1.

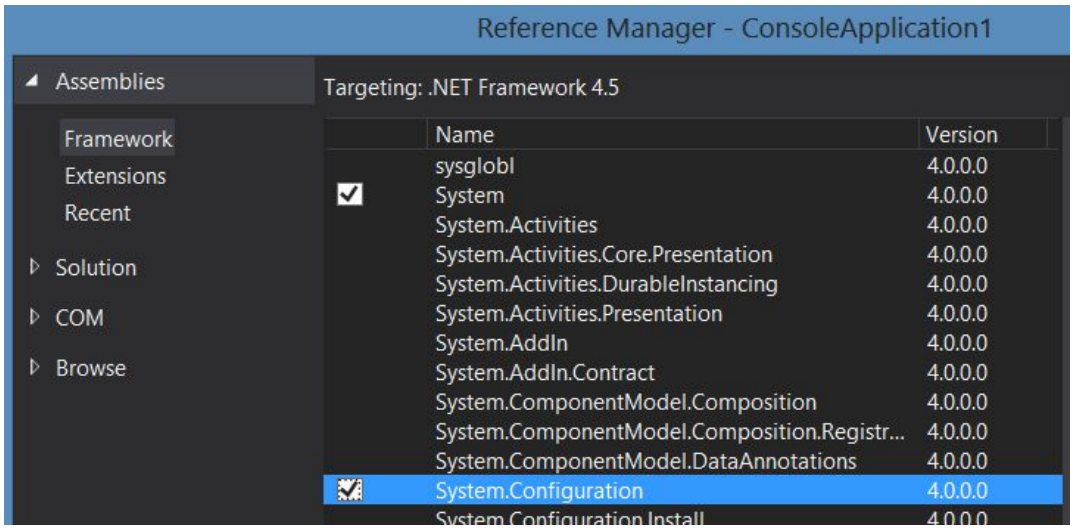
You probably don't have the System.Configuration dll added to the project references. It is not there by default, and you have to add it manually.
Right-click on the References and search for System.Configuration in the .net assemblies.
Check to see if it is in your references...



Right-click and select Add Reference...

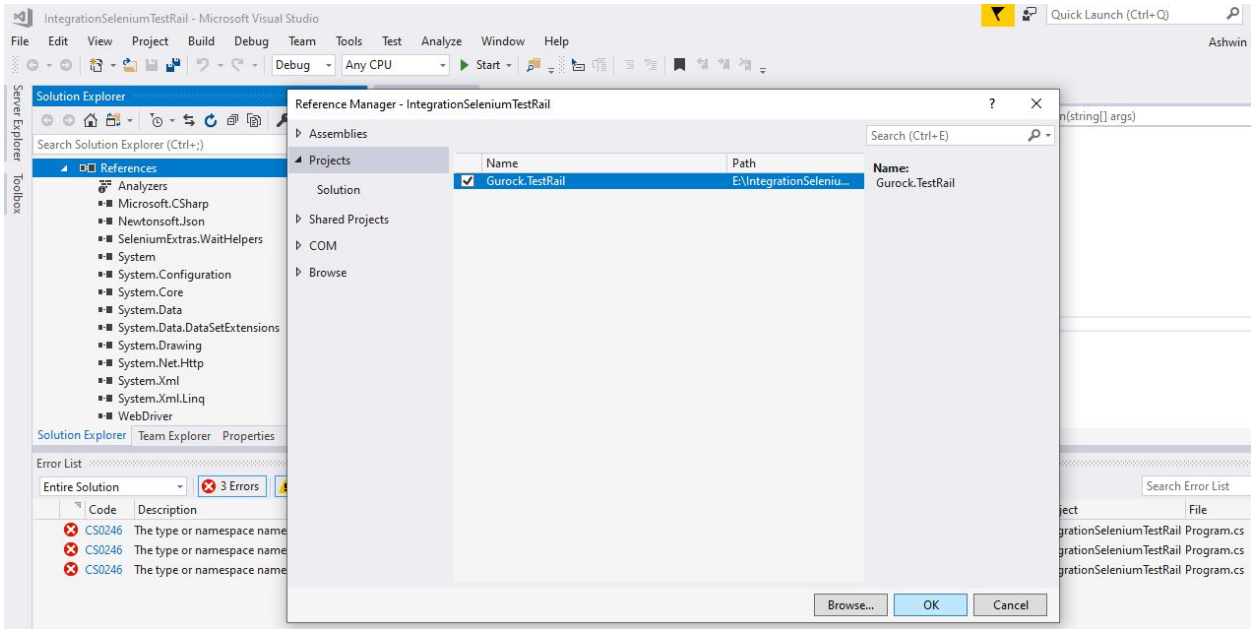


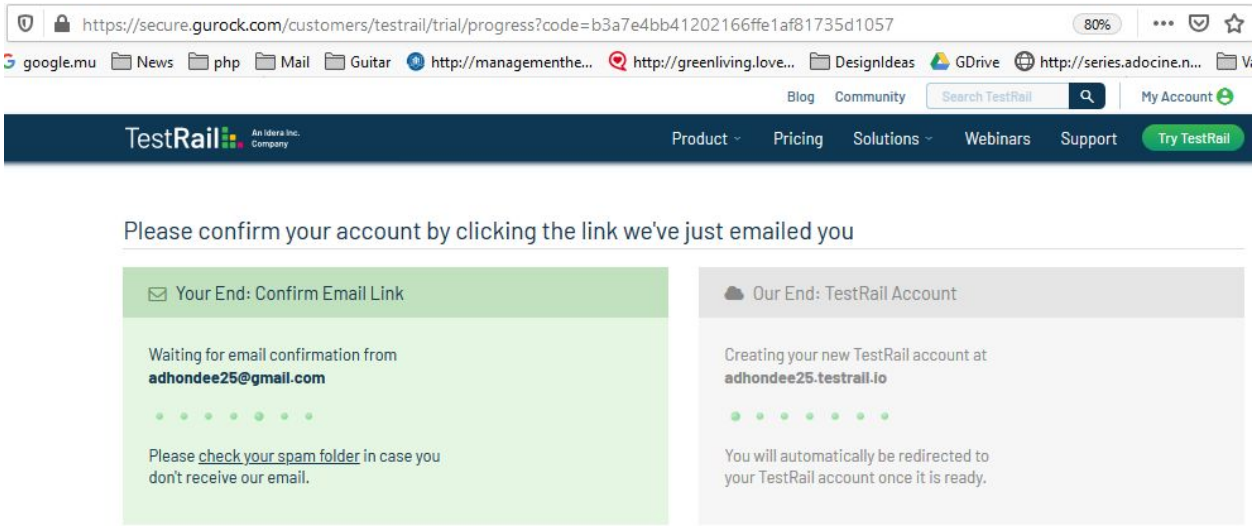
Find System.Configuration in the list of .Net Assemblies, select it, and click Ok...



The assembly should now appear in your references...

2.

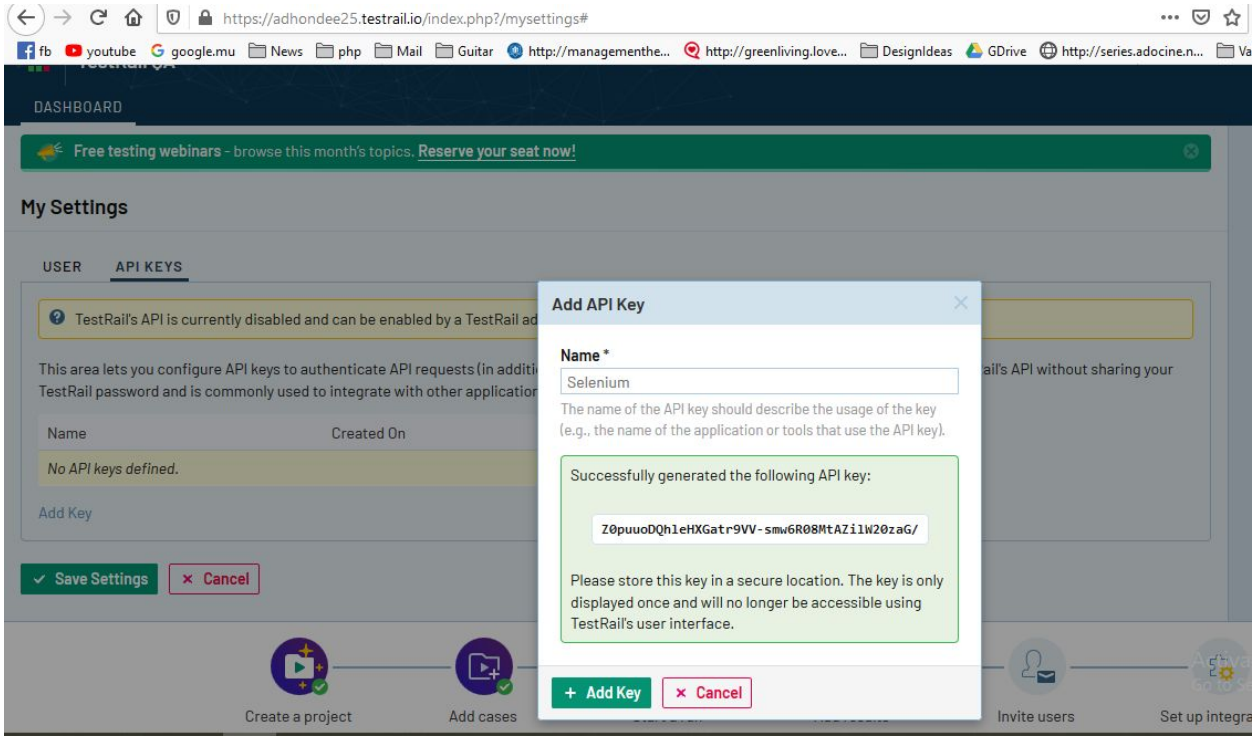




adhondee25@gmail.com

ADHProject2

Add an API key



Z0puuoDQhleHXGatr9VV-smw6R08MtAZilW20zaG/

If error as below, do as in the screenshot after it.

Gurock.TestRail.APIException

HResult=0x80131500

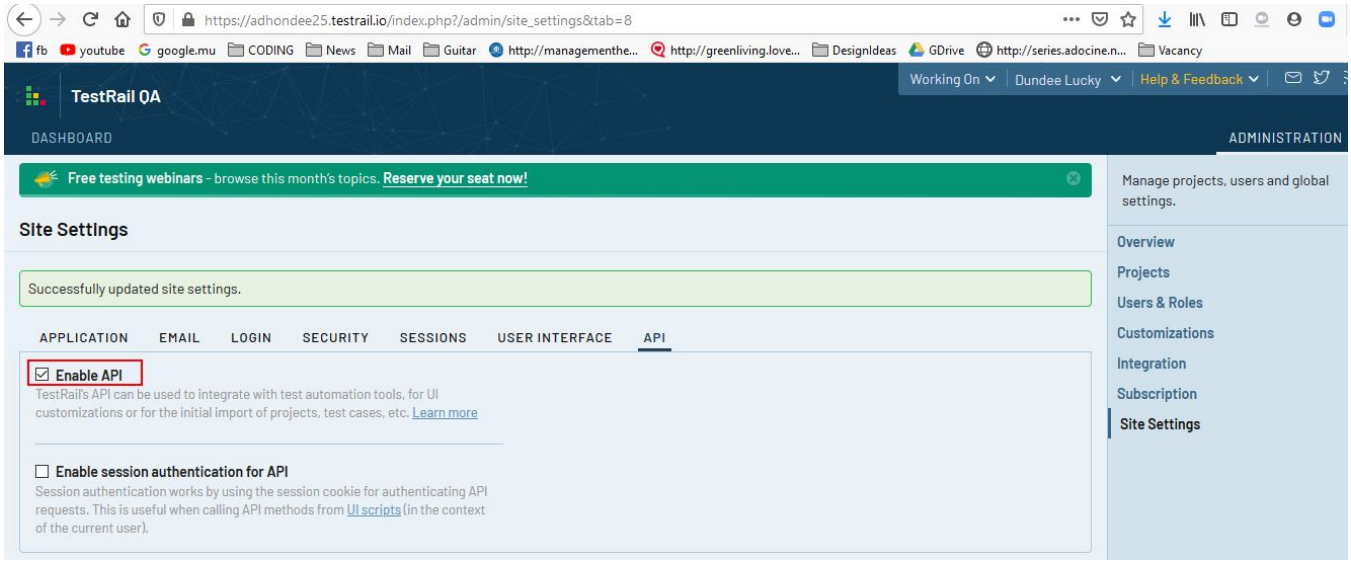
Message=TestRail API returned HTTP 403 ("The API is disabled for your installation. It can be enabled in the administration area in TestRail under Administration > Site Settings > API.")

Source=Gurock.TestRail

StackTrace: at Gurock.TestRail.APIClient.SendRequest(String method, String uri, Object data) in E:\IntegrationSeleniumTestRail\dotnet\Gurock\TestRail\APIClient.cs:line 281

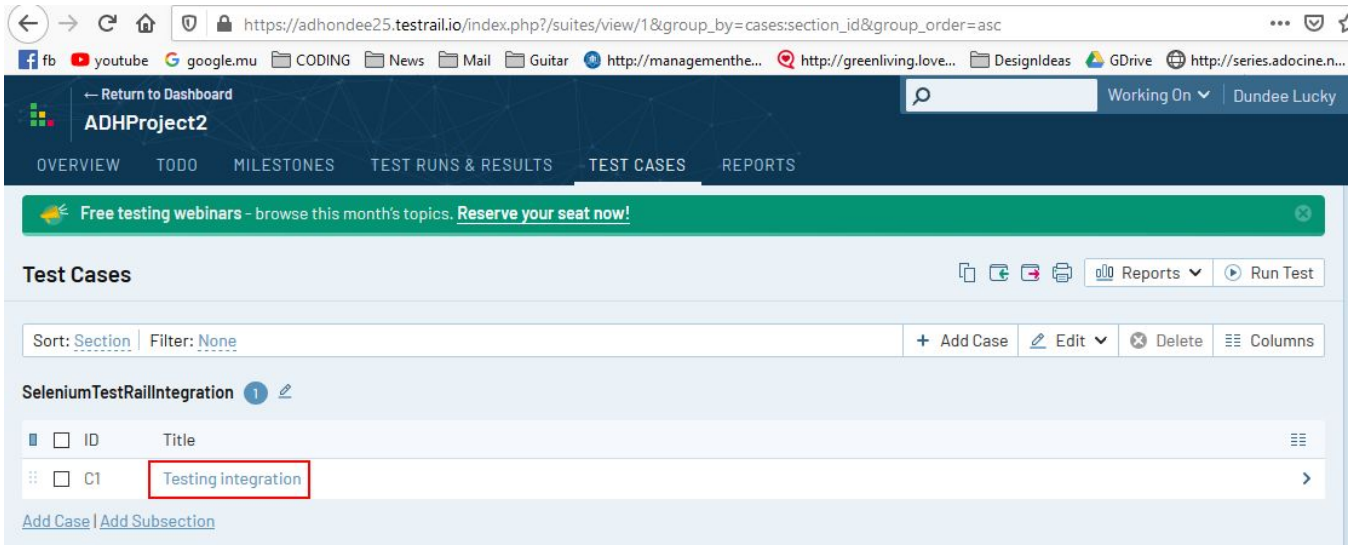
at Gurock.TestRail.APIClient.SendGet(String uri, Object filepath) in E:\IntegrationSeleniumTestRail\dotnet\Gurock\TestRail\APIClient.cs:line 75

at IntegrationSeleniumTestRail.Program.Main(String[] args) in E:\IntegrationSeleniumTestRail\IntegrationSeleniumTestRail\Program.cs:line 55

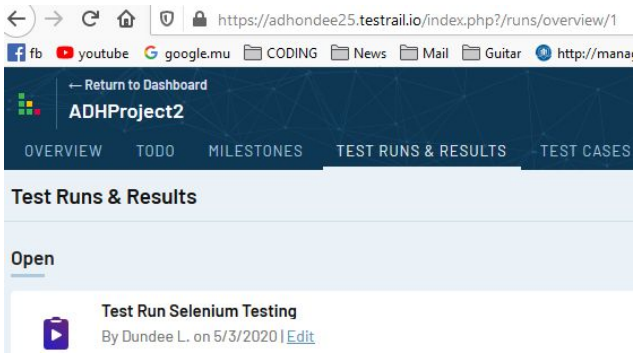


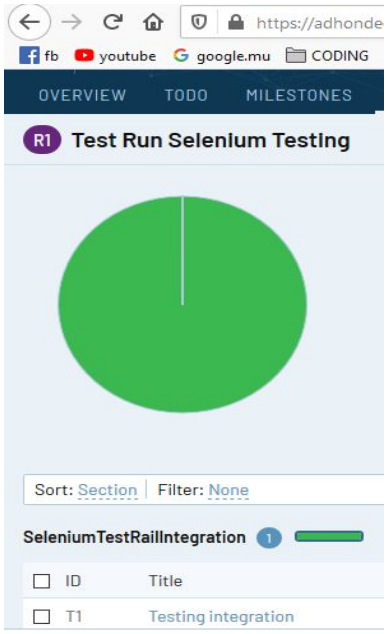
Create a Test Case in Test Rail

It will have id 1 (hardcoded in our code).



Create a Test Run and add our Test Case



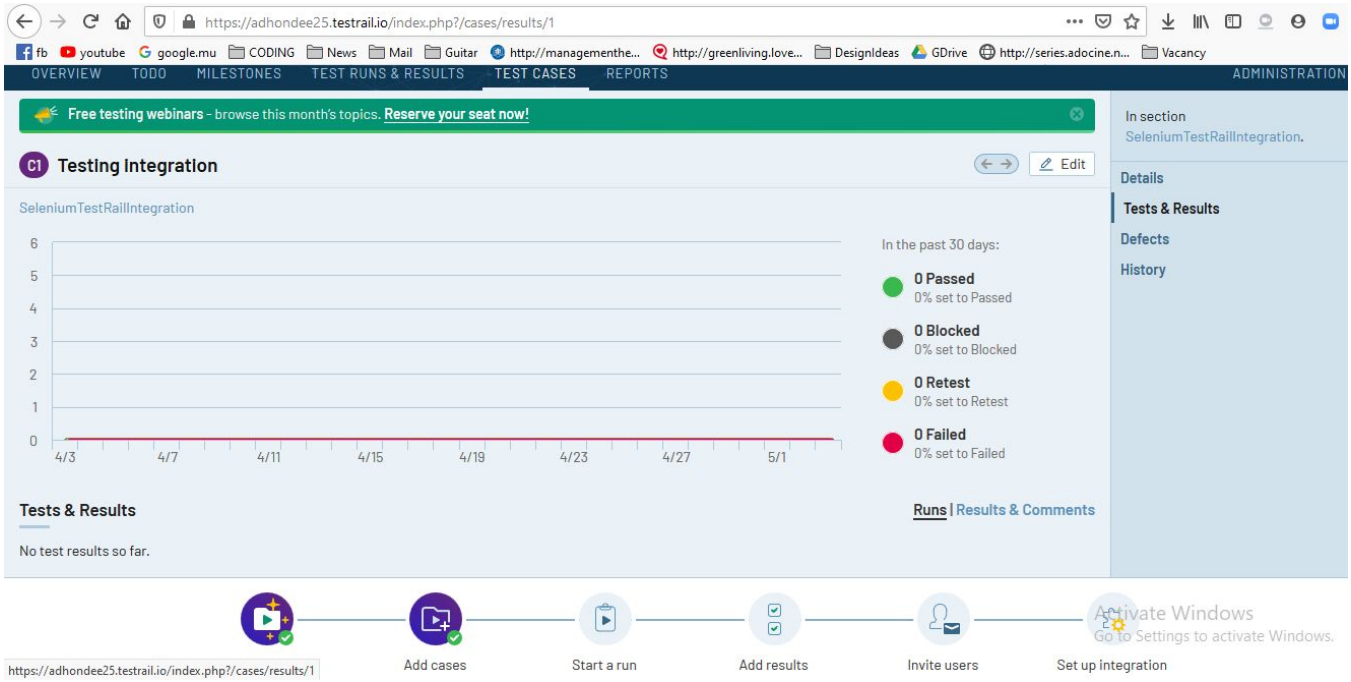


Run code to get title of Test Case

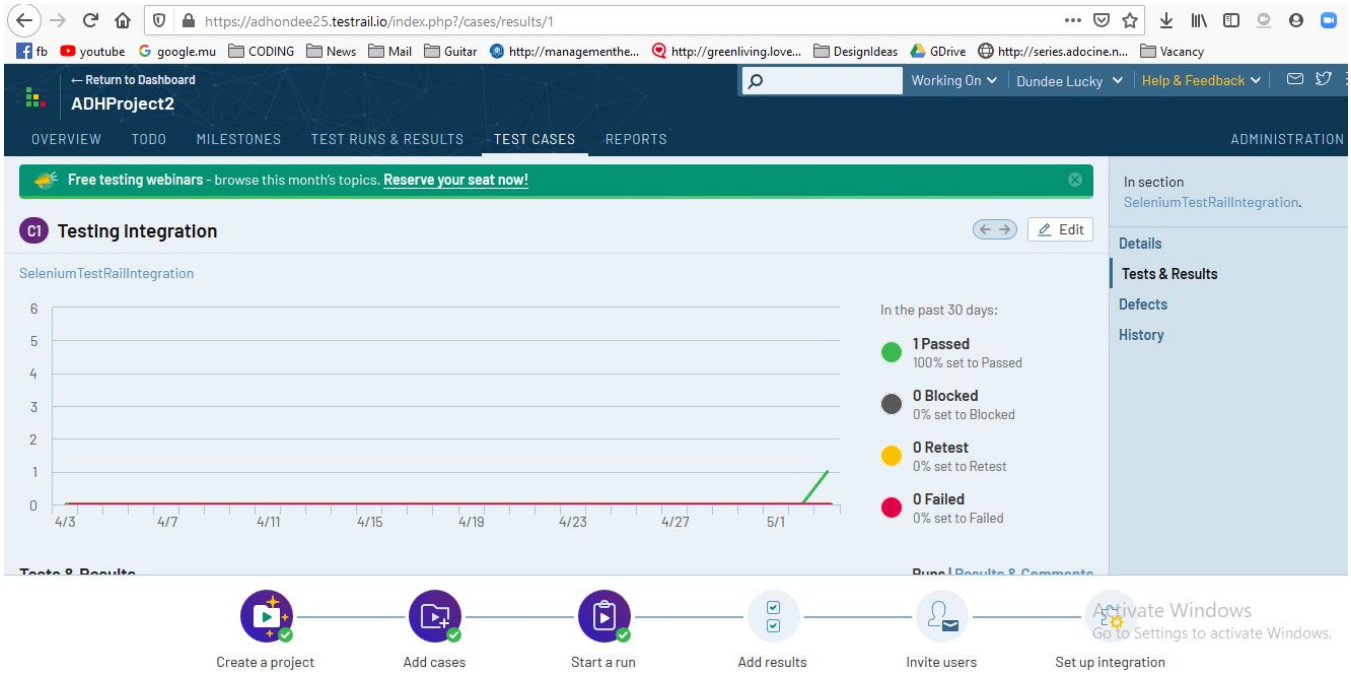
```
APIClient client = new APIClient("https://adhondee25.testrail.io/");
client.User = "adhondee25@gmail.com";
client.Password = "ADHProject2";
Console.WriteLine("Connected to TestRail");
JObject c = (JObject)client.SendGet("get_case/1");
```

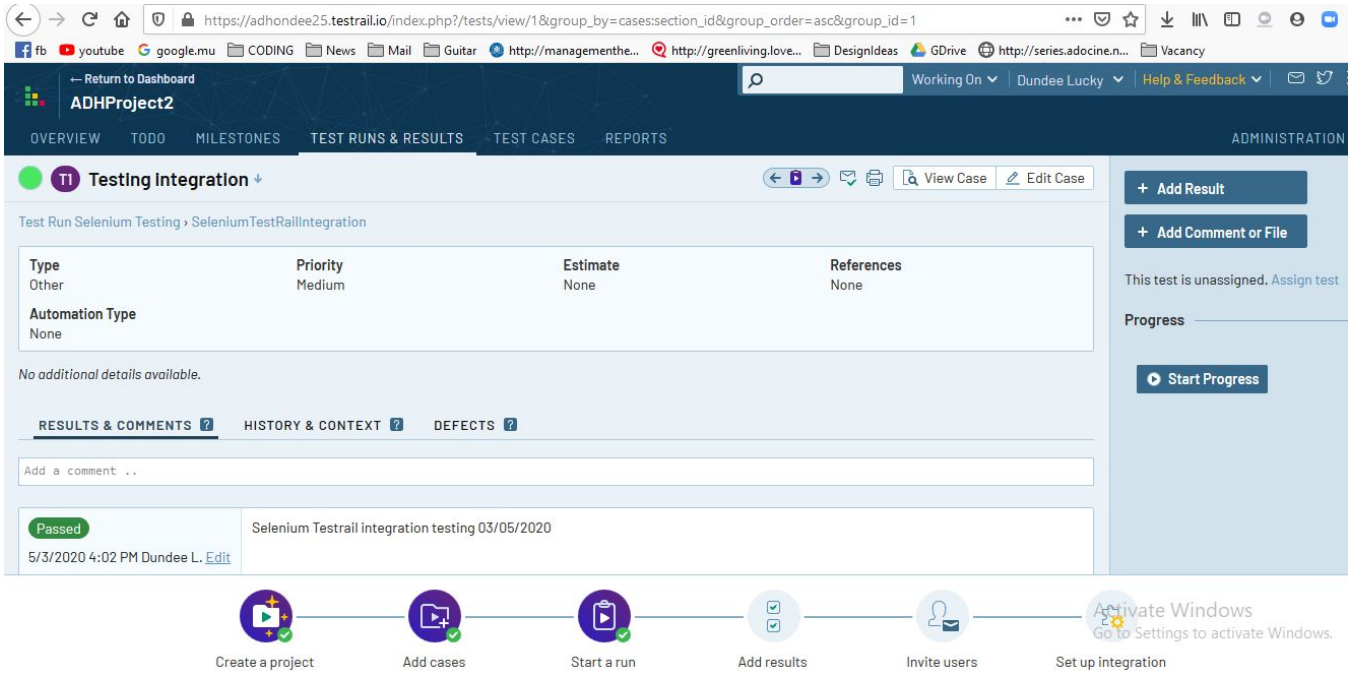
```
Console.WriteLine("Title of Test : " + c["title"]);
```

Test case at start



Run our selenium test


https://adhondee25.testrail.io/index.php?/cases/results/1
← Return to Dashboard
ADHProject2
Working On
Dundee Lucky
Help & Feedback
OVERVIEW
TODO
MILESTONES
TEST RUNS & RESULTS
TEST CASES
REPORTS
ADMINISTRATION
Free testing webinars - browse this month's topics. Reserve your seat now!
C1 Testing Integration
Edit
SeleniumTestRailIntegration
In the past 30 days:
1 Passed
100% set to Passed
0 Blocked
0% set to Blocked
0 Retest
0% set to Retest
0 Failed
0% set to Failed
In section
SeleniumTestRailIntegration.
Details
Tests & Results
Defects
History
Create a project
Add cases
Start a run
Add results
Invite users
Set up integration


https://adhondee25.testrail.io/index.php?/tests/view/1&group_by=cases:section_id&group_order=asc&group_id=1
← Return to Dashboard
ADHProject2
Working On
Dundee Lucky
Help & Feedback
OVERVIEW
TODO
MILESTONES
TEST RUNS & RESULTS
TEST CASES
REPORTS
ADMINISTRATION
T1 Testing Integration
View Case
Edit Case
Test Run Selenium Testing › SeleniumTestRailIntegration
Type
Other
Priority
Medium
Estimate
None
References
None
Automation Type
None
No additional details available.
RESULTS & COMMENTS
HISTORY & CONTEXT
DEFECTS
Add a comment ..
Passed
5/3/2020 4:02 PM Dundee L. Edit
Selenium Testrail integration testing 03/05/2020
+ Add Result
+ Add Comment or File
This test is unassigned. Assign test
Progress
Start Progress
Create a project
Add cases
Start a run
Add results
Invite users
Set up integration

```
if (!testResult)
{
       statusId = 5;
}
Dictionary<string, object> data = new Dictionary<string, object>();
DateTime dateTime= DateTime.Today;
data.Add("status_id", statusId);
data.Add("comment",       "Selenium       Testrail       integration       testing       "+
dateTime.ToString("dd/MM/yyyy”));
JObject r = (JObject)client.SendPost("add_result_for_case/1/1", data);
```

References

[1] https://www.selenium.dev/documentation/en/selenium_installation/

[2] http://docs.gurock.com/testrail-api2/start

[3] http://docs.gurock.com/testrail-api2/bindings-dotnet

[4] http://docs.gurock.com/testrail-api2/reference-results