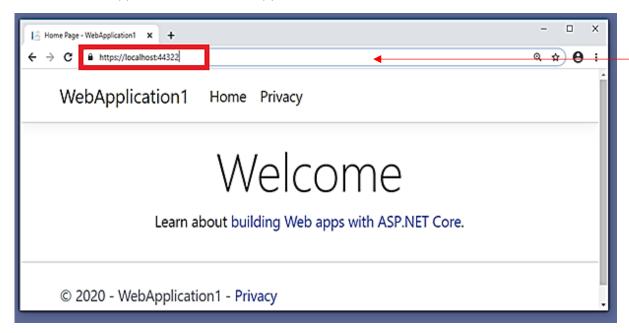
Selenium Web Driver Example – Test UI View

STEP 1: Run the application to test and copy the URL on the address bar



STEP 2: Create Unit Test project

- Start another instance of Visual Studio
- Create a Unit Test Project (.NET Framework)
- Rename the default UnitTest1.cs file to HomePageUnitTest.cs
- Install the following packages using Nuget Package Manager:

Selenium.WebDriver

Selenium.WebDriver.ChromeDriver

Add the following code into HomePageUnitTest class:

```
[TestMethod]
  public void ChromeElementsTest()
      IWebDriver driver = new ChromeDriver();
      driver.Navigate().GoToUrl(appURL);
      Assert.IsNotNull(driver.FindElement(By.TagName("h1")));
      Assert.IsNotNull(driver.FindElement(By.TagName("header
      Assert.IsNotNull(driver.FindElement(By.TagName("footer")));
      Assert.IsNotNull(driver.FindElement(By.TagName("nav")));
      driver.Quit();
  }
  [TestMethod]
  public void ChromeNavCountTest()
      IWebDriver driver = new ChromeDriver();
      driver.Navigate().GoToUrl(appURL);
      ReadOnlyCollection<IWebElement> navItems = driver.FindElements(By.ClassName("nav-item"));
      Assert.IsTrue(navItems.Count >= 1,"At least one nav item required");
      driver.Quit();
  [TestMethod]
  public void ChromeTuteLink()
      IWebDriver driver = new ChromeDriver();
     driver.Navigate().GoToUrl(appURL);
     driver.FindElement(By.Id("tutorialLink")).Click();
     Assert.AreEqual("https://docs.microsoft.com/en-us/aspnet/core/?view=aspnetcore-5.0",
    driver.Url);
     driver.Quit();
  }
}
```

Notes: To ensure the driver always closes its window, you need to add the try and finally blocks in your code.

STEP 3: Run all tests.

Ensure the application to test is still running before executing the test methods.



References:

- https://docs.microsoft.com/en-us/azure/devops/pipelines/test/continuous-test-selenium?view=azure-devops&viewFallbackFrom=azure-devops%5C
- https://www.selenium.dev/documentation/en/webdriver/