Downloading Sample UI Test Framework

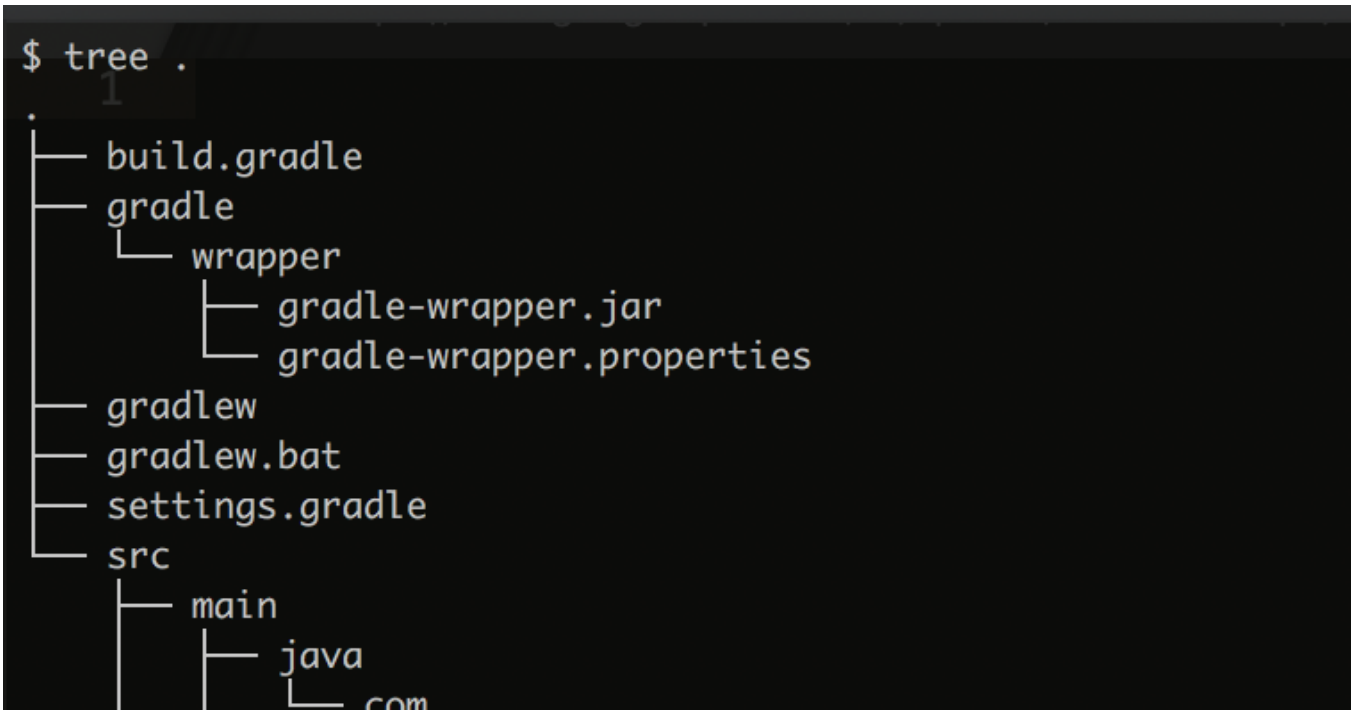
In this lesson, we will download and understand the framework structure.

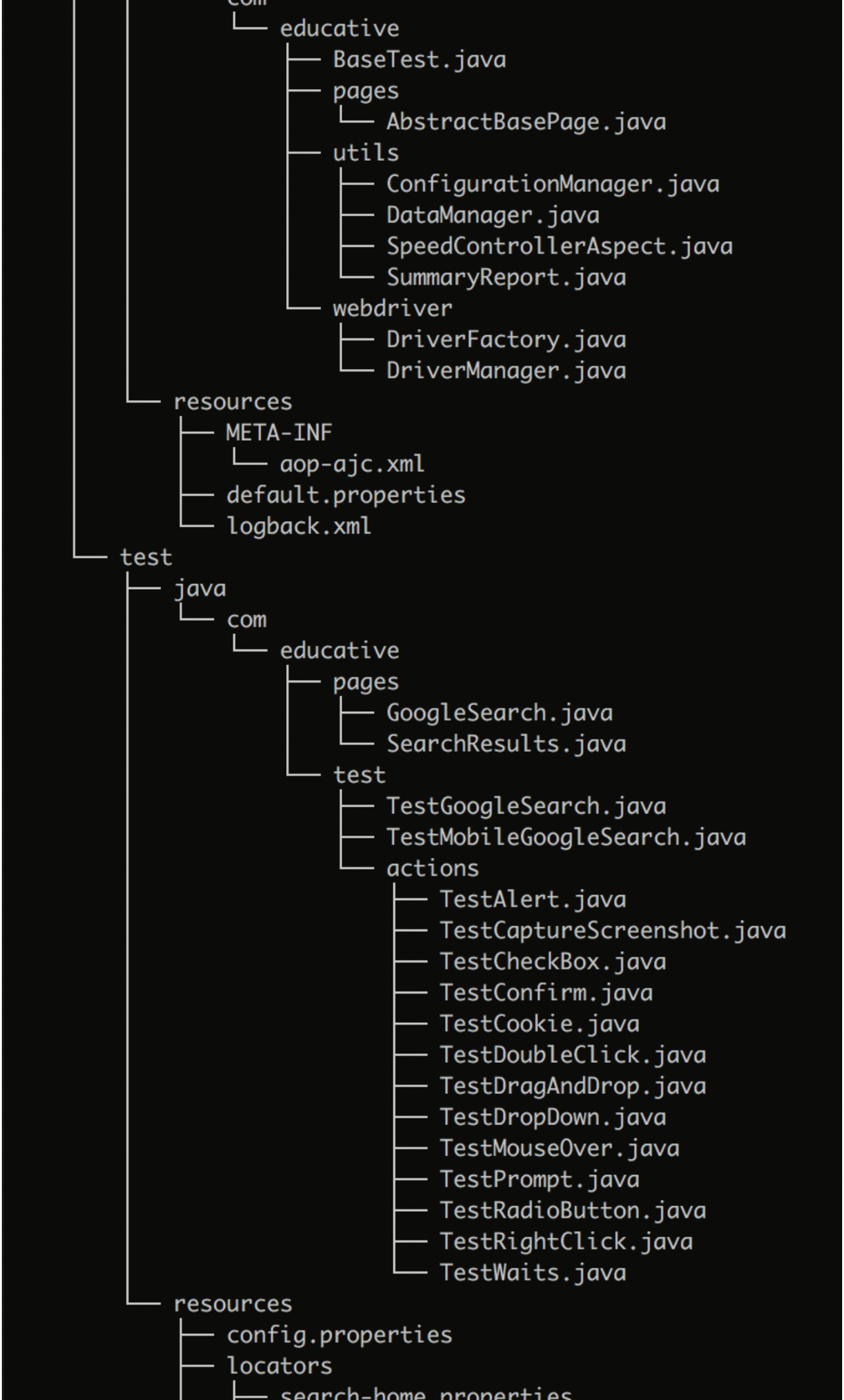
WE'LL COVER THE FOLLOWING

Downloading framework code

A sample framework developed using the discussed concepts can be downloaded from here.

Project structure




com
educative
BaseTest.java
pages
AbstractBasePage.java
utils
ConfigurationManager.java
DataManager.java
SpeedControllerAspect.java
SummaryReport.java
webdriver
DriverFactory.java
DriverManager.java
resources
META-INF
aop-ajc.xml
default.properties
logback.xml
test
java
com
educative
pages
GoogleSearch.java
SearchResults.java
test
TestGoogleSearch.java
TestMobileGoogleSearch.java
actions
TestAlert.java
TestCaptureScreenshot.java
TestCheckBox.java
TestConfirm.java
TestCookie.java
TestDoubleClick.java
TestDragAndDrop.java
TestDropDown.java
TestMouseOver.java
TestPrompt.java
TestRadioButton.java
TestRightClick.java
TestWaits.java
resources
config.properties
locators

```
        search-results.properties
    testng.xml

21 directories, 38 files
```

src/main/java #

- `com/educative/test/BaseTest.java` - A class extended by all test classes
- `com/educative/pages/AbstractBasePage.java` - A class extended by all page objects
- `com/educative/utils/ConfigurationManager.java` - Managing the configuration
- `src/main/java/com/educative/utils/DataManager.java` - For managing static test data for different environments
- `src/main/java/com/educative/utils/SpeedControllerAspect.java` - An aspect class for controlling the speed of Selenium execution
- `src/main/java/com/educative/utils/SummaryReport.java` - An implementation of `IReporter` listener to generate a summary report of the test suite run
- `com/educative/webdriver/DriverFactory.java` - Creating WebDriver instance
- `com/educative/webdriver/DriverManager.java` - Creating and destroying WebDriver instance

src/main/resources #

- `default.properties` - A file holding all default configuration
- `logback.xml` - The configuration for logback

Sample test written using the framework

src/test/java #

- `com/educative/test/TestGoogleSearch.java` – A sample test for google search
- `com/educative/test/actions/TestRightClick.java` – A test for performing a right-click action

- `com/educative/test/actions/TestCookie.java` – A test for handling browser cookie
- `com/educative/test/actions/TestAlert.java` – A test for handling alerts
- `com/educative/test/actions/TestPrompt.java` – A test for handling prompts
- `com/educative/test/actions/TestMouseOver.java` – A test for handling mouse hover
- `com/educative/test/actions/TestConfirm.java` – A test for handling confirmation dialogue
- `com/educative/test/actions/TestRadioButton.java` – A test for working with radio buttons
- `com/educative/test/actions/TestDoubleClick.java` – A test for performing a double-click action
- `com/educative/test/actions/TestCheckBox.java` – A test for handling a check-box
- `com/educative/test/actions/TestCaptureScreenshot.java` – A test for taking screenshots
- `com/educative/test/actions/TestDragAndDrop.java` – A test for performing a drag and drop
- `com/educative/test/actions/TestDropDown.java` – A test for selecting from a drop-down menu
- `com/educative/test/actions/TestWaits.java` – A test for simulating various waits
- `com/educative/test/actions/TestCaptureScreenshot.java` – A test for showing screenshot capabilities

src/test/resources

- `config.properties` - The configuration that overrides the default

configuration file that comes bundled with the framework

- `locators/search-home.properties` – A file for storing search homepage web element name and its locator
- `locators/search-results.properties` – A file for storing search results page web element name and its locator
- `testng.xml` - A suite of TestNG tests

Now, we are familiar with the framework code structure. In the next lesson, we will learn to build, run, and experiment with the downloaded tests.