--README--

Project Name	Identify Courses
Testers	**Amandeep Sharma (885702)** **Sure Alekhya (885539)** **Shreemayee Sahoo (885691)** **Naveen R Gowda (885679)**

Project Structure	src/main/java - - **Source folder**
	    -com.identifycourses.base - - **Package**
	        -BaseClass.java
	    -com. identifycourses.pages - - **Package**
	        -Ready To Transform.java
	        -searchLanguages.java
	        -searchWebDevelopment.java
	    -com. identifycourses.utils - - **Package**
	        -captureDate.java
	        -DriverSetup.java
	        -GenerateExtentReport.java
	        -Read_Excel.java
	        -Read_Properties.java
	        -Write_Excel.java
	        -Write_Excel1.java
	
	src/test/java - - **Source folder**
	    -com. identifycourses.tests - - **Package**
	        - IdentifyCoursesTests.java
	
	src/main/resources - - **Source folder**
	    -drivers - - **Package**
	        -chromedriver.exe
	        -geckodriver.exe
	    -objectRepository - - **Package**
	        -Config.properties

	-testData **- - Package**
	      -FormFill.xlsx
	      -getInformation.xlsx
	      -getWebInfo.xlsx
	
	Reports - - **Folder**
	
	ScreenShots - - **Folder**
	
	target - - **Folder**
	
	test-output - - **Folder**
	
	Hackathon.xml
	Hackathon.xml

Dependency	Junit – 4.12 Selenium – 3.141.59 Apache poi – 4.1.2 TestNG – 7.3.0 Commons-io – 2.8.0 Extentreports – 3.1.5
Browser	Google Chrome Browser Firefox Browser
Report	TestNG Report (Location : test-output - - **Folder**) Extent Report (Location : Reports - - **Folder**)
Property File	**Config.properties** (Location : src/main/resources/objectRepository/)
Test Result File	**getInformation.xlsx, getWebInfo.xlsx** (Location : src/main/resources/testData/)

BASE Package (src/main/java) (com.identifycourses.base)	BaseClass.java	This is the Base Class **<Reusable Hybrid Framework>** • captureErrorText() • closeBrowser() • converter2D() • createDriver() • getAnswer() • getList() • getListLevel() • getValue() • JSE() • navBack() • navRefresh() • ProductMouseHover() • reportFlush() • setClick() • setKeys() • setSelect() • setTest() • stateinfo() • statepass() • timeOut() • WindowHandel()
POM Package (src/main/java) (com. identifycourses.pages)	Ready To Transform.java	This is the POM of **Ready To Transform** • Country() • eMail() • firstName() • forCampus() • getErrormsg() • help() • institueName() • instituteType() • jobDescription()

		• jobTitle() • lastName() • navigateEnterprise() • phone() • primaryDiscipline() • REFRESH() • State() • submitForm()
	searchLanguages.java	This is the POM of **Search Languages** • get2D() • getLangCourse() • getLanguages() • getLevels() • getLevelsTotal() • gotoHome() • searchLang() • verifyCourse2()
	searchWebDevelopment.java	This is the POM of **WebDevelopment** • addFilters() • getCourses() • searchcourse() • toHomepage() • verify1stCourse()

UTILS Package (src/main/java) (com.identifycourses.pages)	**captureDate.java**	This class contains the date and time functionality method • getDateTime ()
	DriverSetup.java	This class contains driver setup • getDriver()

	GenerateExtentReport.java	This class contains extent report functionality method • getReportInstance()
	Read_Excel.java	This reads the data from excel • setFormValue()
	Read_Properties.java	This class contains read properties functionality method • read()
	Write_Excel.java	This class contains write functionality method • writeResult1()
	Write_Excel1.java	This class contains write functionality method • writeResult2()
RESOURCES (src/main/resources)	**drivers**	☐ This folder contains **chromedriver.exe** and **geckodriver.exe**
	objectRepository	• This folder contains **Config.properties.** • **Config.properties** file contains all the configuration information, selectors, report generations flags etc.
	testData	☐ This folder contains **FormFill.xlsx, getInformation.xlsx, getWebInfo.xlsx** file which stores all the test results.

TESTS Package (src/test/java) (com.identifycourses.tests)	IdentifyCoursesTests.java	TEST METHODS:
		• after_suit() • getData() • Test_Case1() • Test_Case10() • Test_Case11() • Test_Case12() • Test_Case13() • Test_Case14() • Test_Case15() • Test_Case2() • Test_Case3() • Test_Case4() • Test_Case5() • Test_Case6() • Test_Case7() • Test_Case8() • Test_Case9()

Designated Folders	
Test result excel file	src/main/resources/testData/ getInformation.xlsx, getWebInfo.xlsx
Screenshots	Screenshots/
Extent report	Reports/
TestNG report	test-output/
Properties	src/main/resources/objectRepository/Config.properties

TEST CASES

METHODS	ANNOTATIONS	DESCRIPTION
getData()	@BeforeTest	- Loads Read_Properties file - Initiating the excel sheet - Creating a new driver
Test_Case1()	@Test(priority=0)	- The course name is searched - All the required filters are added - Course names and rating are passed to an array - Course name is returned and verified - Navigate back to home
Test_Case2()	@Test(priority=1)	- The course name is searched - Language names and courses on each language are passed to an array - Level of difficult in language and Courses on each difficulty level are passed to an array - Language learning and course name is returned and verified - Navigate back to home
Test_Case3()	@Test(priority=2)	- Driver navigates to For-Enterprise and hovers over Product and clicks on campus - Null value input for First name - Valid inputs for ➢ Last name ➢ Job description ➢ Job title ➢ Email ➢ Phone number ➢ Institute name

		➢ Institute type ➢ Discipline ➢ Country ➢ State ➢ Tell us how we can help you transform your campus • Submit form is clicked and error screenshot is captured

Test_Case4()	@Test(priority=3)	• Null value input for Last name
		• Valid inputs for
		   ➢ First name
		   ➢ Job description
		   ➢ Job title
		   ➢ Email
		   ➢ Phone number
		   ➢ Institute name
		   ➢ Institute type
		   ➢ Discipline
		   ➢ Country
		   ➢ State
		   ➢ Tell us how we can help you transform your campus
		• Submit form is clicked and error screenshot is captured

Test_Case5()	@Test(priority=4)	• No selection in Job description
		• Valid inputs for
		   ➢ First name
		   ➢ Last name
		   ➢ Job title
		   ➢ Email
		   ➢ Phone number
		   ➢ Institute name

		➢ Institute type ➢ Discipline ➢ Country ➢ State ➢ Tell us how we can help you transform your campus - Submit form is clicked and error screenshot is captured
Test_Case6()	@Test(priority=5)	- Null value input for Job title - Valid inputs for ➢ First name ➢ Last name ➢ Job description ➢ Email ➢ Phone number ➢ Institute name ➢ Institute type ➢ Discipline ➢ Country ➢ State ➢ Tell us how we can help you transform your campus - Submit form is clicked and error screenshot is captured
Test_Case7()	@Test(priority=6)	- Null value input for email - Valid inputs for ➢ First name ➢ Last name ➢ Job description ➢ Job title ➢ Phone number ➢ Institute name

		- Institute type - Discipline - Country - State - Tell us how we can help you transform your campus - Submit form is clicked and error screenshot is captured
Test_Case8()	@Test(priority=7)	- Invalid value input for email - Valid inputs for - First name - Last name - Job description - Job title - Phone number - Institute name - Institute type - Discipline - Country - State - Tell us how we can help you transform your campus - Submit form is clicked and error screenshot is captured
Test_Case9()	@Test(priority=8)	- Null value input for Phone number - Valid inputs for - First name - Last name - Job description - Job title - Email - Institute name

		➢ Institute type ➢ Discipline ➢ Country ➢ State ➢ Tell us how we can help you transform your campus • Submit form is clicked and error screenshot is captured

Test_Case10()	@Test(priority=9)	• Invalid value input for Phone number
		• Valid inputs for
		    ➢ First name
		    ➢ Last name
		    ➢ Job description
		    ➢ Job title
		    ➢ Email
		    ➢ Institute name
		    ➢ Institute type
		    ➢ Discipline
		    ➢ Country
		    ➢ State
		    ➢ Tell us how we can help you transform your campus
		• Submit form is clicked and error screenshot is captured

Test_Case11()	@Test(priority=10)	• Null value input for Institute name
		• Valid inputs for
		    ➢ First name
		    ➢ Last name
		    ➢ Job description
		    ➢ Job title
		    ➢ Email
		    ➢ Phone number

		➢ Institute type ➢ Discipline ➢ Country ➢ State ➢ Tell us how we can help you transform your campus • Submit form is clicked and error screenshot is captured

Test_Case12()	@Test(priority=11)	• No selection in Institute type
		• Valid inputs for
		  ➢ First name
		  ➢ Last name
		  ➢ Job description
		  ➢ Job title
		  ➢ Email
		  ➢ Phone number
		  ➢ Institute name
		  ➢ Discipline
		  ➢ Country
		  ➢ State
		  ➢ Tell us how we can help you transform your campus
		• Submit form is clicked and error screenshot is captured

Test_Case13()	@Test(priority=12)	• No selection in Discipline
		• Valid inputs for
		  ➢ First name
		  ➢ Last name
		  ➢ Job description
		  ➢ Job title
		  ➢ Email
		  ➢ Phone number

		➢ Institute name ➢ Institute type ➢ Country ➢ State ➢ Tell us how we can help you transform your campus • Submit form is clicked and error screenshot is captured
Test_Case14()	@Test(priority=13)	• No selection in Country • Valid inputs for ➢ First name ➢ Last name ➢ Job description ➢ Job title ➢ Email ➢ Phone number ➢ Institute name ➢ Institute type ➢ Discipline ➢ Tell us how we can help you transform your campus • Submit form is clicked and error screenshot is captured
Test_Case15()	@Test(priority=14)	• No selection in State • Valid inputs for ➢ First name ➢ Last name ➢ Job description ➢ Job title ➢ Email ➢ Phone number ➢ Institute name

		➢ Institute type
		➢ Discipline
		➢ Country
		➢ Tell us how we can help you transform your campus
		• Submit form is clicked and error screenshot is captured
after_suite()	@AfterTest	• Report flush
		• Close browser
		• Write result1
		• Write result2

STEPS TO EXECUTE:

1. Run the testng.xml as TestNG Suite.
2. Wait for the browser to open in the browser.
3. The automation program performs all the tests and close the driver.
4. The test results will be displayed in the console.
5. The test results will be stored into the getInformation.xlsx, getWebInfo.xlsx files in src/main/resources/testData folder.
6. The TestNG report (test-output folder) and extent report (Reports folder) will be generated.
7. Failed test cases corresponding screenshots will be stored into the 'Screenshots' folder.
8. All the screenshots will be stored into the 'Screenshots' folder.

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