Low-code Test Automation Framework

Introduction

Framework for teaching the basics of low-code automation on projects of the Czechitas Digital Testing Academy.

In its default state, after launching, the framework should start a web browser you have installed, without the need to download additional drivers. The assumption is that the user has one of the following web browsers installed: Firefox, Chrome, or Edge.

A sample test in the `ExampleTest` class will open a web browser and verify that the address www.czechitas.cz is present in the contacts section of the testing application.

Hierarchy of Elements

Working with the framework is divided according to elements of the testing application as follows:

ApplicationAction

Allows you to work with application list:

- `selectProgrammingSection()` - select *Programming* course category

- `clickCreateNewApplicationButton()` - create a new application once category is selected

- `openFirstApplicationDetailsPage()` - open an existing application to see details

- `search("Jan")` - search for an application from Jan

- `clickEditFirstApplicationButton()` - open the first application to edit details

ApplicationDetail

Allows you to work with application details page:

- `selectTerm(String term)` - select a term

- `insertStudentFirstName("Jan")` - insert student first name

- `insertStudentLastName("Novak")` - insert student first name

- `insertBirthdate("01.01.2000")` - insert student day of birth

- `insertNote("my personal note")` - insert a note

- `selectCashPaymentMethod()` - choose cash payment method

- `selectBankTransferPaymentMethod()` - choose bank transfer payment method

- `clickAcceptTermsCheckbox()` - accept Terms and Conditions

- `clickEditApplicationButton()` - save changes upon editing an application

- `clickCreateApplicationButton()` - click the button to create an application once all the details are provided

InternalMenuAction

Allows you to work with internal menu upon logging in:

- `goToOrdersSection()` - go to Objednavky section

- `goToTermsSection()` - go to Terminy section

- `goToApplicationsSection()` - go to Prihlasky section

- `goToCategoriesSection()` - go to Kategorie section

- `goToNewsSection()` - go to Aktuality section

- `goToExportsSection()` - go to Exporty section

LoginAction

Allows you to login and logout:

- `clickLoginMenuLink()` - click login link in top menu (top right corner)

- `insertEmail("test@czechitas.cz"); insertPassword("mySecurePass123")` - insert email and password

- `clickLoginButton()` - click login button once credentials are provided

- `logout()` - logout

ProfileAction

Allows you to work with customer profile:

- `goToProfilePage()` - open profile page from top menu

- `insertPassword("new password")` - enter a new password. Change "new password" to the one you like based on security requirements (lowercase and uppercase letters, numbers, etc)

- `insertPasswordVerification("new password")` - enter a password to confirm

- `clickChangeButton()` - click the button to save changes

PublicMenuAction

Allows you to work with top level menu in page header:

- `goToContactsSection()` - go to Kontakt section

- `goToHomePage()` - go to Domu page

- `goToInstructionsAndFormsForTeacherSection()` - go to Navody a Formulare pro ucitele

- `goToKindergartenAndSchoolSection()` - go to Objednávka pro MŠ/ZŠ

- `goToInstructionsAndFormsForParentSection()` - go to Navody a Formulare pro rodice

- `goToCreateApplicationSection()` - create an application from top header menu (Pro rodice -¿ Vytvorit prihlasku)

Assertions

Application list - verification steps you can do on the list view

- `checkColumnExists("Akce")` - check if *Akce* column is visible on the page

- `checkApplicationsTableIsEmpty()` - ensure the application list is empty (*Žádné záznamy nenalezeny* message is displayed)

- `checkNumberOfApplications(5)` - ensure the application list has exactly 5 applications

Application detail view - verification steps you can do on the detail view

- `checkPaymentMethod("Bankovní převod")` - ensure the application is paid through a bank transfer

- `checkFirstName("Jan")` - check that the student first name is *Jan*

- `checkLastName("Novak")` - check that the student first name is *Novak*

- `checkDateOfBirth("01.01.2010")` - check that the student date of birth is *01.01.2010*

- `checkNote("myPrivateNote")` - check that the note is *myPrivateNote*

- `checkRemainingAmountToPay("100.00")` - check that remaining amount to pay is *100.00* Kč

- `checkTerm("05.02.  - 09.02.2024")` - check that the term is *05.02. - 09.02.2024*

- `checkMessageContainsStudentLastName("Novak")` - ensure that *Zpráva pro příjemce* contains student last name *Novak*