**Test strategy**

**Test object**: Google Translate

**Address**: <https://translate.google.com>

**Challenge (risk)**:

* The project will need possibility for testing Handwriting mode.
* The project will need possibility for playing a sound.
* The project will need possibility for recognized that sound is playing.

**Technical aspect**:

* Programming language - *Java*;
* Automation framework - *Selenium WebDriver*;
* Project builder - *Apache Maven*;
* Test framework - *TestNG*;
* Report framework - *ReportNG*;

**High-level architecture of the project**:

* PageObject pattern.
* PageElement pattern.
* PageFactory class.

**Cross Browser will support**:

* Google Chrome (the latest version).
* Mozilla Firefox (the latest version).

**User stories**

**(will be added to test suite)**

**Regression:**

1. As Unsigned User, I can open the URL for be able to translate.
2. As Unsigned User, I can click on the Logo for opening clean translator.
3. As Unsigned User, I can choose a source language for translation.
4. As Unsigned User, I can choose a target language for translation.
5. As Unsigned User, I can open the list with all supported source languages.
6. As Unsigned User, I can open the list with all supported target languages.
7. As Unsigned User, I can select a language from source and target lists.
8. As Unsigned User, I can translate a word.
9. As Unsigned User, I can translate a sentence.
10. As Unsigned User, I can simply switch target and source languages.
11. As Unsigned User, I should be able to see actual character-counter.
12. As Unsigned User, I can enter a text up to max limit (5000 characters).
13. As Unsigned User, I can go to translate community from translator-page.
14. As Unsigned User, I will be redirected to Login page if try to see phrasebook.
15. As Unsigned User, I will be redirected to Login page if click on [Sign in] button from top panel.

**Feature1:**

1. As Unsigned User, I can turn off instant translation.
2. As Unsigned User, I can turn on instant translation.

**Feature2:**

1. As Unsigned User, I can set Detecting language mode for source language.
2. As Unsigned User, I cannot switch target and source languages if Detecting language mode was setted and it is not detected.

**Feature3:**

1. As Unsigned User, I can open Help page from the footer.
2. As Unsigned User, I can open a feedback pop up from the footer.
3. As Unsigned User, I can open Privacy & Terms page from the footer.
4. As Unsigned User, I can open About Google page from the footer.
5. As Unsigned User, I can open About Google Translate page from the footer.
6. As Unsigned User, I can open Community page from the footer.
7. As Unsigned User, I can open page with the Mobile app from the footer.

**Feature4:**

1. As Unsigned User, I can open the virtual keyboard (if language is setted).
2. As Unsigned User, I can enter a text using virtual keyboard.
3. As Unsigned User, I can close the virtual keyboard.

**Feature5:**

1. As Unsigned User, I can use Handwriting mode if Detecting language mode was setted.
2. As Unsigned User, I can drag and drop Handwriting popup.
3. As Unsigned User, I can draw a character into Handwriting popup.
4. As Unsigned User, I can draw a word and select a proposed variant in Handwriting popup.
5. As Unsigned User, I can empty a content of Handwriting popup.
6. As Unsigned User, I can close a Handwriting popup.

**Feature6:**

1. As Unsigned User, I can say a word for recognition and translation.

**Feature7:**

1. As Unsigned User, I can listen an entered text.
2. As Unsigned User, I can listen a translated text.

**Feature8:**

1. As Unsigned User, I can translate a document.

**Feature9:**

1. As Unsigned User, I can translate a website.

\* Unsigned User - user doesn't have account on Google / was not signed in.

**Architecture schema of the project**

**Page Objects**

Base page

*Common methods*

English

*Locators*

*Methods*

Ukrainian

*Locators*

*Methods*

Russian

*Locators*

*Methods*

**Testing**

Test Suite – Regression

*Test logic*

*Test data*

Test Suite – Feature-1 based

*Test logic*

*Test data*

Test Suite – Feature-N based

*Test logic*

*Test data*

Report