# HOW TO USE AI IN THE QUALITY FIELD

# AI Documentation Plan

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*The purpose of this AI Documentation Plan is to provide you with the support and guidance needed to succeed in applying AI in the software Field.*

## Our Agenda

| Topic 1 | ▶ *Generate code and explain code Automation scripts using Katalon Studio Assist.* |
|---|---|
| Topic 2 | ▶ *Shifting Left with GPT Manual Test Generator for Jira.*<br>✚ *Generate Test cases.*<br>✚ *Increases Test Coverage.*<br>✚ *Test optimization.* |
| Topic 3 | ▶ *Visual Testing by Katalon studio by Applitools.* |
| Topic 4 | ▶ *Visual Testing by Katalon studio* |

# AI Documentation Plan

> 🗐  Generate code and explain code Automation scrips using Katalon Studio Assist.

## Steps to be followed:

- Open the katalon studio platform.
- Click on the studio assist icon.
- Add API Key through: https://platform.openai.com/account/organization
- Click save.
- Go to script mode and add the below code.
  - /* Write me a test case that:
  - * 1. Open a browser to a URL
  - * 2. Log in to the website
  - * 3. Click the login button
  - * 4. Input username and password
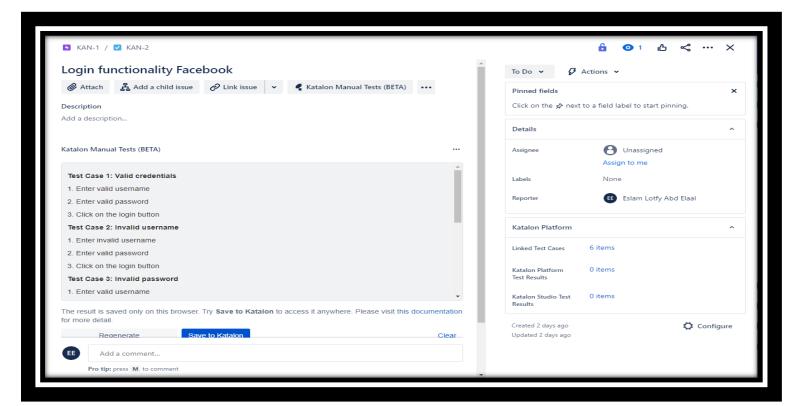  - * 5. Close the browser
  - */
- Right-click and select Generate code.
- Check Code generated is displayed successfully.
- Right-click and select Explain code.
- Check explaining codes are displayed successfully.

```
 1⊕ import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint
22
23
24
25⊖ /* Write me a test case that:
26    * 1. Open a browser to a URL
27    * 2. Log in to the website
28    * 3. Click the login button
29    * 4. Input username and password
30    * 5. Close the browser
31    */
32
33
34⊖ /*
35    *   This test case opens a browser to a URL, logs in to the website, clicks the login button,
36    *   inputs username and password, clicks the browser, and finally, searches for all products.
37    */
38
39    // Open browser to a URL
40    WebUI.openBrowser('')
41
42    // Navigate to the website
43    WebUI.navigateToUrl('https://www.example.com')
44
45    // Log in to the website
46    WebUI.setText(findTestObject('Page_Login/input_Username'), 'username')
47    WebUI.setText(findTestObject('Page_Login/input_Password'), 'password')
48    WebUI.click(findTestObject('Page_Login/button_Login'))
49
50    // Click the login button
51    WebUI.click(findTestObject('Page_Login/button_Login'))
52
53    // Input username and password
54    WebUI.setText(findTestObject('Page_Login/input_Username'), 'username')
55    WebUI.setText(findTestObject('Page_Login/input_Password'), 'password')
56
57    // Click the browser
58    WebUI.click(findTestObject('Page_Login/button_Login'))
59
60
61
62
63
64
65
66
67
```

# AI Documentation Plan

> ## Shifting Left with GPT Manual Test Generator for Jira.
> - Generate Test cases.
> - Increases Test Coverage.
> - Test optimization.

## Steps to be followed:

- Create an account on Jira Cloud.
- Enable Jira integration through https://testops.katalon.io/team/988072/project/1001301/integrations?type=jira_integration
- Add URL - Username – Password through https://id.atlassian.com/manage-profile/security/api-tokens.
- Click Test connection.
- Go to and install plugin through https://marketplace.atlassian.com/apps/1217501/katalon-bdd-test-automation-for-jira?hosting=cloud&tab=overview
- Go to the Jira cloud website.
- Create Project > Epic > Task.
- Check **katalon Manual Tests** plugin is displayed.
- Click on **Generate manual test cases.**
- Click on **save to katalon**.
- Check test cases are now linked in the **Linked Test Cases** section.
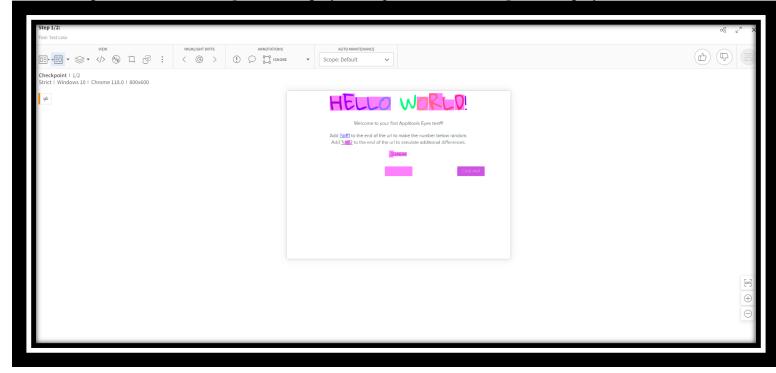
# AI Documentation Plan

> 🔲 *Visual Testing Katalon studio by Applitools.*

**Steps to be followed:**
- Open Katalon studio platform.
- Go manage plugin and install plugin through https://store.katalon.com/product/44/Applitools-Integration.
- Install **Applitools Integration** plugin.
- Go to katalon studio and open script mode.
- Add your "own code" on the katalon platform (check Window).
- Run the code and check the result before deployment on https://eyes.applitools.com/app/test-results
- Run the code and check the result after deployment on https://eyes.applitools.com/app/test-results
- Compare the **baseline image** before deployment against the **new image** after deployment.
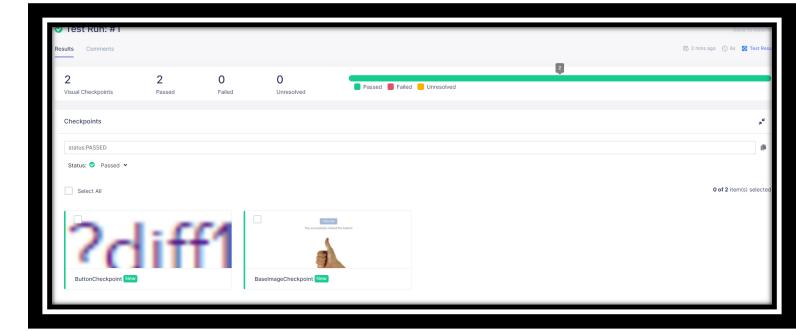
# AI Documentation Plan

> 📊 *Visual Testing by Katalon studio.*

## Steps to be followed:

- Open Katalon studio platform.
- Check integration enabled Katalon Studio Integration
- Go testOps Go to Visual Testing > Visual Test Runs
- Open https://testops.katalon.io
- Click on id there is baseline image and is passed by default
- Test Suite has passed, the screenshots are automatically marked as Passed
- Click on the **Baseline Collection ID** you want to check.
- run the Test Suite again and the Visual Test Run is then marked as **Unresolved**
- Check the baseline image to compare the checkpoint.