

# Introduction to Software Engineering

# Working Software

The student team is required to complete the **Working Software** documentation for the assigned course project, following the attached template.



Software Engineering Department  
Faculty of Information and Technology  
University of Science

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# Automated Testing and Working Software

## Objectives

This document focus on the following topics:

- ✓ Completing the Automated Testing & Working Software document with the following sections:
  - Automated Testing
  - Working Software



# 1

# Member Contribution Assessment

| ID       | Name             | Contribution (%) | Signature |
|----------|------------------|------------------|-----------|
| 23120108 | Võng Hải Yến     | 25%              | Yen       |
| 23120167 | Nguyễn Gia Thịnh | 25%              | Thinh     |
| 23120293 | Đỗ Duy Lợi       | 25%              | Loi       |
| 23120420 | Đinh Nho Hoàng   | 25%              | Hoang     |

## 2 Automated Testing

Phần này trình bày việc thử nghiệm Automated Testing bằng cách kiểm tra các kịch bản (scenarios) khác nhau cho các use-case trong tổng số các use-case của ứng dụng sinh ảnh tự động AI Photofun Studio. Ngoài ra, các Use Case khác mà chất lượng đánh giá phải cần đến cảm nhận khách quan của con người hoặc có các thao tác giống với các Use Case khác đã được kiểm tra sẽ được thay thế kiểm tra bằng phương thức Manual Testing.

Kịch bản kiểm thử sẽ được tạo ra bằng tính năng recording của Katalon Studio, giúp ghi lại các bước thao tác của người dùng trên ứng dụng, bao gồm cả việc nhập yêu cầu, kiểm tra trạng thái nút Generate và xác nhận ảnh được tạo ra. Mỗi kịch bản sẽ được tự động phát lại bởi Katalon để kiểm tra hành vi thực tế của ứng dụng theo các scenario đã định nghĩa.

Kết quả của các lần kiểm thử sẽ được ghi lại trong bảng dưới đây, thể hiện tên Test Case, các bước thực hiện (Test Script), và kết quả kiểm thử (Passed hoặc Failed).

## 2.1 Use case Kiểm tra tính năng Photoshoot

|              |  |
|--------------|--|
| Tên Use Case | Photoshoot   |
| Test Case    | TC_002   |
| Mục tiêu     | Kiểm tra luồng tạo ảnh chân dung bằng ảnh tải từ máy lên, thực hiện các tùy chỉnh màu, tư thế, góc và kiểm tra nút tải ảnh.  |
| Test Script  | <pre> ★ Start Page × apparel_model *photoshoot × photoshoot_startover Outfit 10 import com.kms.katalon.core.testcase.TestCaseBase 11 import com.kms.katalon.coretestdata.TestData as TestData 12 import com.kms.katalon.core.testing.keyword.TestNGBuiltInKeywords as TestNGKW 13 import com.kms.katalon.core.testobject.TestObject as TestObject 14 import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS 15 import com.kms.katalon.core.webui.keyword.WebUIBuiltInKeywords as WebUI 16 import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows 17 import internal.GlobalVariable as GlobalVariable 18 import org.openqa.selenium.Keys as Keys 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 23 24 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/h3_AI Photoshoot')) 25 26 WebUI.uploadFile(findTestObject('Page_AI Photofun - Studio Chp nh AI/uploadModel'), '/Users/v.h.yen/Desktop/image.jpg') 27 28 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Step 5 Select PosesChoose which pose_eeeb6d')) 29 30 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Hands in Pockets')) 31 32 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Walking Pose')) 33 34 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Confident Full Body')) 35 36 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photos (3)')) 37 38 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download All (.zip)')) 39 40 WebUI.closeBrowser() 41 42 </pre> |
| Kết quả      | <ul style="list-style-type: none"> <li>✓ Test Cases/photoshoot 21.249s</li> <li>&gt; ✓ 1 – openBrowser() 3.479s</li> <li>✓ 2 – navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") 2.606s</li> <li>✓ 3 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/h3_AI Photoshoot")) 1.338s</li> <li>✓ 4 – uploadFile(findTestObject("Page_AI Photofun - Studio Chp nh AI/uploadModel"), "/Users/v.h.yen/Desktop/image.jpg") 537ms</li> <li>✓ 5 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Step 5 Select PosesChoose which pose_eeeb6d")) 828ms</li> <li>✓ 6 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Hands in Pockets")) 599ms</li> <li>✓ 7 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Walking Pose")) 381ms</li> <li>✓ 8 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Confident Full Body")) 385ms</li> <li>✓ 9 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photos (3)")) 396ms</li> <li>✓ 10 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download All (.zip)")) 10.121s</li> <li>✓ 11 – closeBrowser() 196ms</li> </ul>  |

|   |   |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
|---|---|--|--------|---|--------|---|-------|---|-------|--|--------|---|-------|--|-------|---|---------|---------------------|-------|
| Tên Use Case  | Photoshoot  |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| Test Case   | TC_003  |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| Mục tiêu  | Kiểm tra model sinh ra từ prompt với pose bất kỳ  |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| Test Script   | <pre> 1* import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 23 24 WebUI.click(findTestObject('Photoshoot/button_Start')) 25 26 WebUI.click(findTestObject('Photoshoot/button_Generate')) 27 28 WebUI.setText(findTestObject('Photoshoot/promptTextarea'), 'woman long black hair') 29 30 WebUI.click(findTestObject('Photoshoot/button_Generate Model')) 31 32 WebUI.click(findTestObject('Photoshoot/button_Step 5 Select Poses')) 33 34 WebUI.click(findTestObject('Photoshoot/button_With Flowers')) 35 36 WebUI.click(findTestObject('Photoshoot/button_Generate Photos')) 37 38 WebUI.click(findTestObject('Object Repository/Photoshoot/button_Download All (.zip)')) 39 40 WebUI.closeBrowser() 41 </pre>  |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| Kết quả   | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <tbody> <tr> <td>3 - click(findTestObject("Photoshoot/button_Start"))</td> <td>3.860s</td> </tr> <tr> <td>4 - click(findTestObject("Photoshoot/button_Generate"))</td> <td>1.270s</td> </tr> <tr> <td>5 - setText(findTestObject("Photoshoot/promptTextarea"), "woman long black hair")</td> <td>981ms</td> </tr> <tr> <td>6 - click(findTestObject("Photoshoot/button_Generate Model"))</td> <td>573ms</td> </tr> <tr> <td>7 - click(findTestObject("Photoshoot/button_Step 5 Select Poses"))</td> <td>8.618s</td> </tr> <tr> <td>8 - click(findTestObject("Photoshoot/button_With Flowers"))</td> <td>1.88s</td> </tr> <tr> <td>9 - click(findTestObject("Photoshoot/button_Generate Photos"))</td> <td>503ms</td> </tr> <tr> <td>10 - click(findTestObject("Object Repository/Photoshoot/button_Download All (.zip)"))</td> <td>10.248s</td> </tr> <tr> <td>11 - closeBrowser()</td> <td>460ms</td> </tr> </tbody> </table> | 3 - click(findTestObject("Photoshoot/button_Start")) | 3.860s | 4 - click(findTestObject("Photoshoot/button_Generate")) | 1.270s | 5 - setText(findTestObject("Photoshoot/promptTextarea"), "woman long black hair") | 981ms | 6 - click(findTestObject("Photoshoot/button_Generate Model")) | 573ms | 7 - click(findTestObject("Photoshoot/button_Step 5 Select Poses")) | 8.618s | 8 - click(findTestObject("Photoshoot/button_With Flowers")) | 1.88s | 9 - click(findTestObject("Photoshoot/button_Generate Photos")) | 503ms | 10 - click(findTestObject("Object Repository/Photoshoot/button_Download All (.zip)")) | 10.248s | 11 - closeBrowser() | 460ms |
| 3 - click(findTestObject("Photoshoot/button_Start"))                                  | 3.860s  |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 4 - click(findTestObject("Photoshoot/button_Generate"))                               | 1.270s  |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 5 - setText(findTestObject("Photoshoot/promptTextarea"), "woman long black hair")     | 981ms   |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 6 - click(findTestObject("Photoshoot/button_Generate Model"))                         | 573ms   |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 7 - click(findTestObject("Photoshoot/button_Step 5 Select Poses"))                    | 8.618s  |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 8 - click(findTestObject("Photoshoot/button_With Flowers"))                           | 1.88s   |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 9 - click(findTestObject("Photoshoot/button_Generate Photos"))                        | 503ms   |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 10 - click(findTestObject("Object Repository/Photoshoot/button_Download All (.zip)")) | 10.248s   |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |
| 11 - closeBrowser()   | 460ms   |  |        |   |        |   |       |   |       |  |        |   |       |  |       |   |         |                     |       |

## 2.2 Use case Apparel Mockup Studio

|              |   |        |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
|--------------|---|--------|---------------------|--------|---|---|--------|---|---|--------|---|--|-------|---|--|-------|---|---|--------|---|--|-------|---|--|--------|---|--------------------|------|
| Tên Use Case | Apparel Mockup Studio   |        |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| Test Case    | TC_004  |        |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| Mục tiêu     | Kiểm tra luồng tạo sản phẩm theo đúng mô tả, với sản phẩm là sản phẩm tạo ra bằng model AI  |        |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| Test Script  | <pre> 1# import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint 2# 3# WebUI.openBrowser('') 4# 5# WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 6# 7# WebUI.click(findTestObject('Object Repository/Apparel Mockup Studio/button_Start')) 8# 9# WebUI.setText(findTestObject('Object Repository/Apparel Mockup Studio/textarea_long river'), 'long river') 10# 11# WebUI.click(findTestObject('Object Repository/Apparel Mockup Studio/button_Generate with AI')) 12# 13# WebUI.setText(findTestObject('Object Repository/Apparel Mockup Studio/textarea_t-shirt'), 't-shirt') 14# 15# WebUI.click(findTestObject('Object Repository/Apparel Mockup Studio/button_Generate 2 Colorways')) 16# 17# WebUI.click(findTestObject('Object Repository/Apparel Mockup Studio/button_Download All')) 18# 19# WebUI.closeBrowser() 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 </pre>   |        |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| Kết quả      | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <tr> <td>&gt;</td> <td>1 - openBrowser("")</td> <td>2.799s</td> </tr> <tr> <td>&gt;</td> <td>2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")</td> <td>2.969s</td> </tr> <tr> <td>&gt;</td> <td>3 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Start"))</td> <td>1.449s</td> </tr> <tr> <td>&gt;</td> <td>4 - setText(findTestObject("Object Repository/Apparel Mockup Studio/textarea_long river"), "long river")</td> <td>862ms</td> </tr> <tr> <td>&gt;</td> <td>5 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Generate with AI"))</td> <td>566ms</td> </tr> <tr> <td>&gt;</td> <td>6 - setText(findTestObject("Object Repository/Apparel Mockup Studio/textarea_t-shirt"), "t-s...")</td> <td>8.177s</td> </tr> <tr> <td>&gt;</td> <td>7 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Generate 2 Colorways"))</td> <td>735ms</td> </tr> <tr> <td>&gt;</td> <td>8 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Download All"))</td> <td>9.815s</td> </tr> <tr> <td>&gt;</td> <td>9 - closeBrowser()</td> <td>41ms</td> </tr> </table> | >      | 1 - openBrowser("") | 2.799s | > | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") | 2.969s | > | 3 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Start")) | 1.449s | > | 4 - setText(findTestObject("Object Repository/Apparel Mockup Studio/textarea_long river"), "long river") | 862ms | > | 5 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Generate with AI")) | 566ms | > | 6 - setText(findTestObject("Object Repository/Apparel Mockup Studio/textarea_t-shirt"), "t-s...") | 8.177s | > | 7 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Generate 2 Colorways")) | 735ms | > | 8 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Download All")) | 9.815s | > | 9 - closeBrowser() | 41ms |
| >            | 1 - openBrowser("")   | 2.799s |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")   | 2.969s |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 3 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Start"))   | 1.449s |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 4 - setText(findTestObject("Object Repository/Apparel Mockup Studio/textarea_long river"), "long river")  | 862ms  |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 5 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Generate with AI"))  | 566ms  |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 6 - setText(findTestObject("Object Repository/Apparel Mockup Studio/textarea_t-shirt"), "t-s...")   | 8.177s |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 7 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Generate 2 Colorways"))  | 735ms  |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 8 - click(findTestObject("Object Repository/Apparel Mockup Studio/button_Download All"))  | 9.815s |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |
| >            | 9 - closeBrowser()  | 41ms   |                     |        |   |   |        |   |   |        |   |  |       |   |  |       |   |   |        |   |  |       |   |  |        |   |                    |      |

|                     |   |
|---------------------|---|
| <b>Tên Use Case</b> | Apparel Mockup Studio   |
| <b>Test Case</b>    | TC_005  |
| <b>Mục tiêu</b>     | Kiểm tra luồng tạo sản phẩm theo ảnh mẫu ban đầu.   |
| <b>Test Script</b>  | <pre> 1 import com.kms.katalon.core.webui.keyword.WebUIBuiltInKeywords as WebUI 15 import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows 16 import internal.GlobalVariable as GlobalVariable 17 import org.openqa.selenium.Keys as Keys 18 19 WebUI.openBrowser('') 20 21 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 22 23 24 WebUI.click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Apparel Mockup StudioCreate apparel moc_e27208")) 25 26 WebUI.uploadFile(findTestObject("Page_AI Photofun - Studio Chp nh AI/input_front_design"), '/Users/v.h.yen/Desktop/pokemon.webp') 27 28 WebUI.click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate with AI")) 29 30 WebUI.setText(findTestObject("Page_AI Photofun - Studio Chp nh AI/textarea_Apparel Style Description"), 't-shirt') 31 32 WebUI.waitForElementPresent(findTestObject("Page_AI Photofun - Studio Chp nh AI/div_FFFFFF"), 100) 33 34 WebUI.waitForElementVisible(findTestObject("Page_AI Photofun - Studio Chp nh AI/div_18181b"), 100) 35 36 WebUI.click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate 2 Colorways")) 37 38 WebUI.click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download All")) 39 40 WebUI.closeBrowser() 41 </pre> |
| <b>Kết quả</b>      | <p>✓ <b>Test Cases/apparel_upload</b> 30.6%</p> <ul style="list-style-type: none"> <li>&gt; ✓ 1 – openBrowser("") 3.6%</li> <li>✓ 2 – navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") 2.2%</li> <li>✓ 3 – click(findTestObject("Object Repository/Page_AI Photofun - Studio C... 997</li> <li>✓ 4 – uploadFile(findTestObject("Page_AI Photofun - Studio Chp nh Al/inp... 483</li> <li>✓ 5 – click(findTestObject("Object Repository/Page_AI Photofun - Studio C... 10.10</li> <li>✓ 6 – setText(findTestObject("Page_AI Photofun - Studio Chp nh AI/textare... 913</li> <li>✓ 7 – waitForElementPresent(findTestObject("Page_AI Photofun - Studio C... 550</li> <li>✓ 8 – waitForElementVisible(findTestObject("Page_AI Photofun - Studio Ch... 454</li> <li>✓ 9 – click(findTestObject("Object Repository/Page_AI Photofun - Studio C... 490</li> <li>✓ 10 – click(findTestObject("Object Repository/Page_AI Photofun - Studio ... 10.1</li> <li>✓ 11 – closeBrowser() 180</li> </ul>   |

## 2.3 Use Case Typographic Illustrator

|  |   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
|--|---|------------------------------------|---------|-----------------------|------|---|--------|---|-------|--|-------|---|-------|--|--------|----------------------|-------|
| Tên Use Case   | Typographic Illustrator   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| Test Case  | TC_006  |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| Mục tiêu   | Kiểm tra xem hệ thống có nhận input giống đầu vào không   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| Test Script  | <pre> 1=import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint 2=WebUI.openBrowser('') 3=WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 4=WebUI.click(findTestObject('Object Repository/Typographic Illustrator/button_Start')) 5=WebUI.setText(findTestObject('Object Repository/Typographic Illustrator/textarea_riding a bike'),     'riding a bike') 6=WebUI.click(findTestObject('Object Repository/Typographic Illustrator/button_Generate Illustration')) 7=WebUI.click(findTestObject('Object Repository/Typographic Illustrator/button_Download')) 8=WebUI.closeBrowser() </pre>  |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| Kết quả  | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <tr> <td>Test Cases/Typographic Illustrator</td> <td>18.689s</td> </tr> <tr> <td>  &gt; 1 - openBrowser("")</td> <td>3.9s</td> </tr> <tr> <td>  &gt; 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")</td> <td>3.284s</td> </tr> <tr> <td>  &gt; 3 - click(findTestObject("Object Repository/Typographic Illustrator/button_Start"))</td> <td>1.62s</td> </tr> <tr> <td>  &gt; 4 - setText(findTestObject("Object Repository/Typographic Illustrator/textarea_riding a bike"), "riding a bike")</td> <td>872ms</td> </tr> <tr> <td>  &gt; 5 - click(findTestObject("Object Repository/Typographic Illustrator/button_Generate Illustration"))</td> <td>600ms</td> </tr> <tr> <td>  &gt; 6 - click(findTestObject("Object Repository/Typographic Illustrator/button_Download"))</td> <td>8.840s</td> </tr> <tr> <td>  &gt; 7 - closeBrowser()</td> <td>429ms</td> </tr> </table> | Test Cases/Typographic Illustrator | 18.689s | > 1 - openBrowser("") | 3.9s | > 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") | 3.284s | > 3 - click(findTestObject("Object Repository/Typographic Illustrator/button_Start")) | 1.62s | > 4 - setText(findTestObject("Object Repository/Typographic Illustrator/textarea_riding a bike"), "riding a bike") | 872ms | > 5 - click(findTestObject("Object Repository/Typographic Illustrator/button_Generate Illustration")) | 600ms | > 6 - click(findTestObject("Object Repository/Typographic Illustrator/button_Download")) | 8.840s | > 7 - closeBrowser() | 429ms |
| Test Cases/Typographic Illustrator   | 18.689s   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| > 1 - openBrowser("")  | 3.9s  |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| > 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")  | 3.284s  |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| > 3 - click(findTestObject("Object Repository/Typographic Illustrator/button_Start"))                              | 1.62s   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| > 4 - setText(findTestObject("Object Repository/Typographic Illustrator/textarea_riding a bike"), "riding a bike") | 872ms   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| > 5 - click(findTestObject("Object Repository/Typographic Illustrator/button_Generate Illustration"))              | 600ms   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| > 6 - click(findTestObject("Object Repository/Typographic Illustrator/button_Download"))                           | 8.840s  |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |
| > 7 - closeBrowser()   | 429ms   |                                    |         |                       |      |   |        |   |       |  |       |   |       |  |        |                      |       |

## 2.4 Use Case Clone Effect

| Tên Use Case | Clone Effect  |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
|--------------|---|---------|-------------|------|---|-----------------|--------|---|---|--------|---|---|--------|---|---|--------|---|---|---------|---|---|--------|---|--|---------|---|----------------|--------|
| Test Case    | TC_007  |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| Mục tiêu     | Kiểm tra luồng thực hiện của tính năng Clone Effect   |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| Test Script  | <pre> ★ Start Page ┌ Clone Effect ┘ ┌ Help └ └ 1# import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint()   19 ~20 WebUI.openBrowser('')   21   22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/')   23   24 WebUI.click(findTestObject('Object Repository/Clone Effect/button_Start'))   25   26 WebUI.uploadFile(findTestObject('Clone Effect/uploader'), 'E:\\Hoang\\OIP.png')   27   28 WebUI.setText(findTestObject('Object Repository/Clone Effect/textarea_Cheering around'), 'Cheering around')   29   30 WebUI.click(findTestObject('Object Repository/Clone Effect/button_Regenerate'))   31   32 WebUI.click(findTestObject('Object Repository/Clone Effect/button_Download'))   33   34 WebUI.closeBrowser()   35   36 </pre>  |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| Kết quả      | <p>Runs: 1/1      Passed: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Description</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>openBrowser("")</td> <td>6.776s</td> </tr> <tr> <td>2</td> <td>navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")</td> <td>4.488s</td> </tr> <tr> <td>3</td> <td>click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh A..."))</td> <td>3.179s</td> </tr> <tr> <td>4</td> <td>uploadFile(findTestObject("Clone Effect/uploader"), "E:\\Hoang\\OIP.png")</td> <td>2.953s</td> </tr> <tr> <td>5</td> <td>setText(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp n..."), "Cheering around")</td> <td>11.531s</td> </tr> <tr> <td>6</td> <td>click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh A..."))</td> <td>1.237s</td> </tr> <tr> <td>7</td> <td>click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh ..."))</td> <td>11.700s</td> </tr> <tr> <td>8</td> <td>closeBrowser()</td> <td>2.947s</td> </tr> </tbody> </table> | Step    | Description | Time | 1 | openBrowser("") | 6.776s | 2 | navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") | 4.488s | 3 | click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh A...")) | 3.179s | 4 | uploadFile(findTestObject("Clone Effect/uploader"), "E:\\Hoang\\OIP.png") | 2.953s | 5 | setText(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp n..."), "Cheering around") | 11.531s | 6 | click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh A...")) | 1.237s | 7 | click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh ...")) | 11.700s | 8 | closeBrowser() | 2.947s |
| Step         | Description   | Time    |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 1            | openBrowser("")   | 6.776s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 2            | navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")   | 4.488s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 3            | click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh A..."))   | 3.179s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 4            | uploadFile(findTestObject("Clone Effect/uploader"), "E:\\Hoang\\OIP.png")   | 2.953s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 5            | setText(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp n..."), "Cheering around")   | 11.531s |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 6            | click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh A..."))   | 1.237s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 7            | click(findTestObject("Object Repository/Clone Effect/Page_AI Photofun - Studio Chp nh ..."))  | 11.700s |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |
| 8            | closeBrowser()  | 2.947s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |        |   |   |         |   |   |        |   |  |         |   |                |        |

## 2.5 Use Case Outfit Extractor

| <b>Tên Use Case</b>  | Outfit Extractor  |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
|--|---|------|------|---------------------|--------|--|--------|--|-------|--|-------|--|---------|--------------------|-------|
| <b>Test Case</b>   | TC_008  |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| <b>Mục tiêu</b>  | Kiểm tra luồng thực hiện của tính năng Outfit Extractor   |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| <b>Test Script</b>   | <pre> 1 import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint 2 import static com.kms.katalon.core.testcase.TestCaseFactory.findTestCase 3 import static com.kms.katalon.coretestdata.TestDataFactory.findTestData 4 import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject 5 import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject 6 import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint 7 import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW 8 import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile 9 import com.kms.katalon.core.model.FailureHandling as FailureHandling 10 import com.kms.katalon.core.testcase.TestCase as TestCase 11 import com.kms.katalon.coretestdata.TestData as TestData 12 import com.kms.katalon.core.testing.keyword.TestNGBuiltInKeywords as TestNGKW 13 import com.kms.katalon.core.testobject.TestObject as TestObject 14 import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS 15 import com.kms.katalon.core.webui.keyword.WebUIBuiltInKeywords as WebUI 16 import com.kms.katalon.core.windows.keyword.WindowsBuiltInKeywords as Windows 17 import internal.GlobalVariable as GlobalVariable 18 import org.openqa.selenium.Keys as Keys 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app') 23 24 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Outfit Extract clothing from a_a76a24')) 25 26 WebUI.uploadFile(findTestObject('Page_AI Photofun - Studio Chp nh AI/Step 1 Upload_Outfit'), '/Users/v.h.yen/Desktop/image.jpg') 27 28 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_DownloadOutfit')) 29 30 WebUI.closeBrowser() 31 32 </pre> |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| <b>Kết quả</b>   | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1 – openBrowser("")</td> <td>2.767s</td> </tr> <tr> <td>2 – navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app")</td> <td>2.412s</td> </tr> <tr> <td>3 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Outfit Extract clothing from a_a76a24"))</td> <td>960ms</td> </tr> <tr> <td>4 – uploadFile(findTestObject("Page_AI Photofun - Studio Chp nh AI/Step 1 Upload_Outfit"), '/Users/v.h.yen/Desktop/image.jpg')</td> <td>569ms</td> </tr> <tr> <td>5 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_DownloadOutfit"))</td> <td>10.323s</td> </tr> <tr> <td>6 – closeBrowser()</td> <td>181ms</td> </tr> </tbody> </table>   | Step | Time | 1 – openBrowser("") | 2.767s | 2 – navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app") | 2.412s | 3 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Outfit Extract clothing from a_a76a24")) | 960ms | 4 – uploadFile(findTestObject("Page_AI Photofun - Studio Chp nh AI/Step 1 Upload_Outfit"), '/Users/v.h.yen/Desktop/image.jpg') | 569ms | 5 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_DownloadOutfit")) | 10.323s | 6 – closeBrowser() | 181ms |
| Step   | Time  |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| 1 – openBrowser("")  | 2.767s  |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| 2 – navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app")   | 2.412s  |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| 3 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Outfit Extract clothing from a_a76a24"))   | 960ms   |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| 4 – uploadFile(findTestObject("Page_AI Photofun - Studio Chp nh AI/Step 1 Upload_Outfit"), '/Users/v.h.yen/Desktop/image.jpg') | 569ms   |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| 5 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_DownloadOutfit"))                       | 10.323s   |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |
| 6 – closeBrowser()   | 181ms   |      |      |                     |        |  |        |  |       |  |       |  |         |                    |       |

## 2.6 Use case AI Inpainter

| Tên Use Case | AI Inpainter  |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
|--------------|---|---------|-------------|------|---|-----------------|--------|---|---|--------|---|---|--------|---|---|-------|---|---|--------|---|--|-------|---|---|-------|---|--|-------|---|--|-------|----|--|--------|----|--|-------|----|--|---------|----|---|-------|----|---|-------|
| Test Case    | TC_009  |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| Mục tiêu     | Kiểm tra luồng thực hiện của tính năng AI Inpainter   |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| Test Script  | <pre> AI Inpainter X 1=import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SluqxxRtUoD6 23 24 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI InpainterFill in missing parts of an_300a7f')) 25 26 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI Inpainter_p-4 bg-white5 rounded-2xl _5a8104')) 27 28 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_AI Inpainter_absolute inset-0 w-full_e778a4')) 29 30 WebUI.setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a'), 'a') 31 32 WebUI.setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_1'), 'a ') 33 34 WebUI.setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d'), 'a d') 35 36 WebUI.setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d0'), 'a do') 37 38 WebUI.setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_dog'), 'a dog') 39 40 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate')) 41 42 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) 43 44 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Go Back')) 45 46 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools')) 47 48 </pre>  |         |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| Kết quả      | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Description</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>openBrowser("")</td> <td>2.402s</td> </tr> <tr> <td>2</td> <td>navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SluqxxRtUoD6")</td> <td>3.115s</td> </tr> <tr> <td>3</td> <td>click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI InpainterFill in missing parts of an_300a7f'))</td> <td>1.382s</td> </tr> <tr> <td>4</td> <td>click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI Inpainter_p-4 bg-white5 rounded-2xl _5a8104'))</td> <td>618ms</td> </tr> <tr> <td>5</td> <td>click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_AI Inpainter_absolute inset-0 w-full_e778a4'))</td> <td>3.595s</td> </tr> <tr> <td>6</td> <td>setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a'), "a")</td> <td>767ms</td> </tr> <tr> <td>7</td> <td>setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_1'), "a ")</td> <td>941ms</td> </tr> <tr> <td>8</td> <td>setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d'), "a d")</td> <td>905ms</td> </tr> <tr> <td>9</td> <td>setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d0'), "a do")</td> <td>983ms</td> </tr> <tr> <td>10</td> <td>setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_dog'), "a dog")</td> <td>1.101s</td> </tr> <tr> <td>11</td> <td>click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate'))</td> <td>908ms</td> </tr> <tr> <td>12</td> <td>click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download'))</td> <td>10.109s</td> </tr> <tr> <td>13</td> <td>click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Go Back'))</td> <td>372ms</td> </tr> <tr> <td>14</td> <td>click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools'))</td> <td>761ms</td> </tr> </tbody> </table> | Step    | Description | Time | 1 | openBrowser("") | 2.402s | 2 | navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SluqxxRtUoD6") | 3.115s | 3 | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI InpainterFill in missing parts of an_300a7f')) | 1.382s | 4 | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI Inpainter_p-4 bg-white5 rounded-2xl _5a8104')) | 618ms | 5 | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_AI Inpainter_absolute inset-0 w-full_e778a4')) | 3.595s | 6 | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a'), "a") | 767ms | 7 | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_1'), "a ") | 941ms | 8 | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d'), "a d") | 905ms | 9 | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d0'), "a do") | 983ms | 10 | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_dog'), "a dog") | 1.101s | 11 | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate')) | 908ms | 12 | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) | 10.109s | 13 | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Go Back')) | 372ms | 14 | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools')) | 761ms |
| Step         | Description   | Time    |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 1            | openBrowser("")   | 2.402s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 2            | navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SluqxxRtUoD6")   | 3.115s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 3            | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI InpainterFill in missing parts of an_300a7f'))   | 1.382s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 4            | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI Inpainter_p-4 bg-white5 rounded-2xl _5a8104'))   | 618ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 5            | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_AI Inpainter_absolute inset-0 w-full_e778a4'))   | 3.595s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 6            | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a'), "a")  | 767ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 7            | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_1'), "a ")   | 941ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 8            | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d'), "a d")  | 905ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 9            | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_d0'), "a do")  | 983ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 10           | setText(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/textarea_a_dog'), "a dog")  | 1.101s  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 11           | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate'))  | 908ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 12           | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download'))  | 10.109s |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 13           | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Go Back'))   | 372ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |
| 14           | click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools'))   | 761ms   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |   |        |   |  |       |   |   |       |   |  |       |   |  |       |    |  |        |    |  |       |    |  |         |    |   |       |    |   |       |

## 2.7 Use case 3D Depth Effect

| Tên Use Case | 3D Depth Effect  |        |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
|--------------|--|--------|-------------|------|---|-----------------|--------|---|---|--------|---|---|--------|---|---|-------|---|--|--------|---|---|--------|---|--|--------|---|--|-------|---|---|-------|
| Test Case    | TC_0010  |        |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| Mục tiêu     | Kiểm tra luồng thực hiện của tính năng 3D Depth Effect   |        |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| Test Script  | <pre>3D Depth Effect x 1# import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 2# 3# WebUI.openBrowser('') 4# 5# WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAЕwAAE5sL_SluquxxRtUoDG') 6# 7# WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_3D Depth EffectAdd a parallax 3D effect_94273f')) 8# 9# WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Upload an Image_p-4 bg-white5 rounded-2_97512f')) 10# 11# WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate 3D Effect')) 12# 13# WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Move your mouse over the image_w-ful_603b66')) 14# 15# WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download Depth Map')) 16# 17# WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over')) 18# 19# WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools')) 20# 21# 22# 23# 24# 25# 26# 27# 28# 29# 30# 31# 32# 33# 34# 35# 36# 37# 38#</pre>  |        |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| Kết quả      | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Description</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>openBrowser("")</td> <td>2.535s</td> </tr> <tr> <td>2</td> <td>navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAЕwAAE5sL_SluquxxRtUoDG")</td> <td>4.372s</td> </tr> <tr> <td>3</td> <td>click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_3D Depth EffectAdd a parallax 3D effect_94273f"))</td> <td>1.551s</td> </tr> <tr> <td>4</td> <td>click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Upload an Image_p-4 bg-white5 rounded-2_97512f"))</td> <td>626ms</td> </tr> <tr> <td>5</td> <td>click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate 3D Effect"))</td> <td>3.420s</td> </tr> <tr> <td>6</td> <td>click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Move your mouse over the image_w-ful_603b66"))</td> <td>9.606s</td> </tr> <tr> <td>7</td> <td>click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download Depth Map"))</td> <td>1.563s</td> </tr> <tr> <td>8</td> <td>click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))</td> <td>609ms</td> </tr> <tr> <td>9</td> <td>click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools"))</td> <td>640ms</td> </tr> </tbody> </table> | Step   | Description | Time | 1 | openBrowser("") | 2.535s | 2 | navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAЕwAAE5sL_SluquxxRtUoDG") | 4.372s | 3 | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_3D Depth EffectAdd a parallax 3D effect_94273f")) | 1.551s | 4 | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Upload an Image_p-4 bg-white5 rounded-2_97512f")) | 626ms | 5 | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate 3D Effect")) | 3.420s | 6 | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Move your mouse over the image_w-ful_603b66")) | 9.606s | 7 | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download Depth Map")) | 1.563s | 8 | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over")) | 609ms | 9 | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools")) | 640ms |
| Step         | Description  | Time   |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 1            | openBrowser("")  | 2.535s |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 2            | navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAЕwAAE5sL_SluquxxRtUoDG")  | 4.372s |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 3            | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_3D Depth EffectAdd a parallax 3D effect_94273f"))  | 1.551s |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 4            | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Upload an Image_p-4 bg-white5 rounded-2_97512f"))  | 626ms  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 5            | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate 3D Effect"))   | 3.420s |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 6            | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Move your mouse over the image_w-ful_603b66"))  | 9.606s |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 7            | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download Depth Map"))   | 1.563s |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 8            | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))   | 609ms  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |
| 9            | click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools"))  | 640ms  |             |      |   |                 |        |   |   |        |   |   |        |   |   |       |   |  |        |   |   |        |   |  |        |   |  |       |   |   |       |

## 2.8 Use case Portrait ID Generator

| Tên Use Case | Portrait ID Generator  |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
|--------------|--|---------|-------------|------|---|-----------------------|---------|---|---------------------------------|--|---|---|--|---|------------------------------------|--|---|-----------------------|--|---|-----------------------------|--|---|---------------------------|--|---|--------------------------------------|---------|---|---------------------|--------|----|--|-------|----|---|--------|----|--|-------|----|--|-------|----|--|--------|----|--|---------|----|--|-------|----|---|-------|
| Test Case    | TC_011   |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| Mục tiêu     | Kiểm tra luồng thực hiện của tính năng Portrait ID Generator   |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| Test Script  | <pre> Portrait ID Generator 1*import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 2*WebUI.openBrowser('') 3WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2F1bQlxMQBzcnRjBmFwcF9pZAewAAEe5sL_S1juqxxRtUoDG') 4WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professiona_9e0ed4')) 5WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload')) 6WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male')) 7WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo')) 8WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) 9WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over')) 10WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools')) </pre>   |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| Kết quả      | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Description</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Portrait ID Generator</td> <td>26.211s</td> </tr> <tr> <td>2</td> <td>userFullName = nguyengiathinh95</td> <td></td> </tr> <tr> <td>3</td> <td>projectName = AIphotoFun_AutomatedTesting</td> <td></td> </tr> <tr> <td>4</td> <td>hostName = nguye - DESKTOP-MOUTGBK</td> <td></td> </tr> <tr> <td>5</td> <td>os = Windows 11 64bit</td> <td></td> </tr> <tr> <td>6</td> <td>hostAddress = 192.168.1.101</td> <td></td> </tr> <tr> <td>7</td> <td>katalonVersion = 10.4.3.0</td> <td></td> </tr> <tr> <td>8</td> <td>1 - Test Cases/Portrait ID Generator</td> <td>24.929s</td> </tr> <tr> <td>9</td> <td>  1 - openBrowser("")</td> <td>2.474s</td> </tr> <tr> <td>10</td> <td>  2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2F1bQlxMQBzcnRjBmFwcF9pZAewAAEe5sL_S1juqxxRtUoDG")</td> <td>3.48s</td> </tr> <tr> <td>11</td> <td>  3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professiona_9e0ed4"))</td> <td>1.236s</td> </tr> <tr> <td>12</td> <td>  4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload"))</td> <td>604ms</td> </tr> <tr> <td>13</td> <td>  5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male"))</td> <td>403ms</td> </tr> <tr> <td>14</td> <td>  6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo"))</td> <td>5.413s</td> </tr> <tr> <td>15</td> <td>  7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download"))</td> <td>10.104s</td> </tr> <tr> <td>16</td> <td>  8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))</td> <td>382ms</td> </tr> <tr> <td>17</td> <td>  9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools"))</td> <td>652ms</td> </tr> </tbody> </table> | Step    | Description | Time | 1 | Portrait ID Generator | 26.211s | 2 | userFullName = nguyengiathinh95 |  | 3 | projectName = AIphotoFun_AutomatedTesting |  | 4 | hostName = nguye - DESKTOP-MOUTGBK |  | 5 | os = Windows 11 64bit |  | 6 | hostAddress = 192.168.1.101 |  | 7 | katalonVersion = 10.4.3.0 |  | 8 | 1 - Test Cases/Portrait ID Generator | 24.929s | 9 | 1 - openBrowser("") | 2.474s | 10 | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2F1bQlxMQBzcnRjBmFwcF9pZAewAAEe5sL_S1juqxxRtUoDG") | 3.48s | 11 | 3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professiona_9e0ed4")) | 1.236s | 12 | 4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload")) | 604ms | 13 | 5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male")) | 403ms | 14 | 6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo")) | 5.413s | 15 | 7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download")) | 10.104s | 16 | 8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over")) | 382ms | 17 | 9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools")) | 652ms |
| Step         | Description  | Time    |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 1            | Portrait ID Generator  | 26.211s |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 2            | userFullName = nguyengiathinh95  |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 3            | projectName = AIphotoFun_AutomatedTesting  |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 4            | hostName = nguye - DESKTOP-MOUTGBK   |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 5            | os = Windows 11 64bit  |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 6            | hostAddress = 192.168.1.101  |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 7            | katalonVersion = 10.4.3.0  |         |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 8            | 1 - Test Cases/Portrait ID Generator   | 24.929s |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 9            | 1 - openBrowser("")  | 2.474s  |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 10           | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2F1bQlxMQBzcnRjBmFwcF9pZAewAAEe5sL_S1juqxxRtUoDG")   | 3.48s   |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 11           | 3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professiona_9e0ed4"))  | 1.236s  |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 12           | 4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload"))   | 604ms   |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 13           | 5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male"))   | 403ms   |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 14           | 6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo"))   | 5.413s  |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 15           | 7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download"))   | 10.104s |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 16           | 8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))   | 382ms   |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |
| 17           | 9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools"))  | 652ms   |             |      |   |                       |         |   |                                 |  |   |   |  |   |                                    |  |   |                       |  |   |                             |  |   |                           |  |   |                                      |         |   |                     |        |    |  |       |    |   |        |    |  |       |    |  |       |    |  |        |    |  |         |    |  |       |    |   |       |

| <b>Tên Use Case</b>   | Portrait ID Generator   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
|---|---|------|-----------|--|--------|---------------------|--------|---|--------|--|--------|--|-------|--|-------|---|-------|---|-------|---|-------|--|-------|--|-------|---|--------|---|---------|---|--------|--|-------|
| <b>Test Case</b>  | TC_012  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| <b>Mục tiêu</b>   | Kiểm tra luồng thực hiện của tính năng Portrait ID Generator với các lựa chọn khác nhau   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| <b>Test Script</b>  | <pre> 1# Import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 2WebUI.openBrowser('') 3WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAEE5sl_SljuqxRtUoDG') 4WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professional_9e0ed4')) 5WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload')) 6WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male')) 7WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Smile')) 8WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_T-shirt')) 9WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Fashion')) 10WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Gray')) 11WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_4x6')) 12WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo')) 13WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) 14WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over')) 15WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools')) 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 </pre>  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| <b>Kết quả</b>  | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Time (ms)</th> </tr> </thead> <tbody> <tr> <td>1 - Test Cases/Portrait ID Generator more optional</td> <td>31.22s</td> </tr> <tr> <td>  1 - openBrowser("")</td> <td>2.617s</td> </tr> <tr> <td>  2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAEE5sl_SljuqxRtUoDG")</td> <td>4.853s</td> </tr> <tr> <td>  3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professional_9e0ed4"))</td> <td>1.285s</td> </tr> <tr> <td>  4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload"))</td> <td>597ms</td> </tr> <tr> <td>  5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male"))</td> <td>390ms</td> </tr> <tr> <td>  6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Smile"))</td> <td>400ms</td> </tr> <tr> <td>  7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_T-shirt"))</td> <td>418ms</td> </tr> <tr> <td>  8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Fashion"))</td> <td>412ms</td> </tr> <tr> <td>  9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Gray"))</td> <td>390ms</td> </tr> <tr> <td>  10 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_4x6"))</td> <td>351ms</td> </tr> <tr> <td>  11 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo"))</td> <td>3.181s</td> </tr> <tr> <td>  12 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download"))</td> <td>10.548s</td> </tr> <tr> <td>  13 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))</td> <td>3.185s</td> </tr> <tr> <td>  14 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools"))</td> <td>584ms</td> </tr> </tbody> </table> | Step | Time (ms) | 1 - Test Cases/Portrait ID Generator more optional | 31.22s | 1 - openBrowser("") | 2.617s | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAEE5sl_SljuqxRtUoDG") | 4.853s | 3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professional_9e0ed4")) | 1.285s | 4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload")) | 597ms | 5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male")) | 390ms | 6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Smile")) | 400ms | 7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_T-shirt")) | 418ms | 8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Fashion")) | 412ms | 9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Gray")) | 390ms | 10 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_4x6")) | 351ms | 11 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo")) | 3.181s | 12 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download")) | 10.548s | 13 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over")) | 3.185s | 14 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools")) | 584ms |
| Step  | Time (ms)   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 1 - Test Cases/Portrait ID Generator more optional  | 31.22s  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 1 - openBrowser("")   | 2.617s  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQlxMQBzcnRjBmFwcF9pZAEE5sl_SljuqxRtUoDG") | 4.853s  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Portrait ID GeneratorCreate professional_9e0ed4"))        | 1.285s  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload"))                    | 597ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Male"))  | 390ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Smile"))   | 400ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_T-shirt"))   | 418ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Fashion"))   | 412ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Gray"))  | 390ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 10 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_4x6"))  | 351ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 11 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photo"))                                     | 3.181s  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 12 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download"))   | 10.548s   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 13 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))   | 3.185s  |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |
| 14 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools"))  | 584ms   |      |           |  |        |                     |        |   |        |  |        |  |       |  |       |   |       |   |       |   |       |  |       |  |       |   |        |   |         |   |        |  |       |

## 2.9 Use case Pose Animator

| Tên Use Case   | Pose Animator  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
|--|--|------|------|---------------------|--------|--|-------|---|--------|--|-------|---|--------|--|-------|--|--------|--|---------|--|--------|--|-------|
| Test Case  | TC_013   |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| Mục tiêu   | Kiểm tra luồng thực hiện của tính năng Pose Animator với Upload  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| Test Script  | <pre>     Pose Animator Upload X     1"import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint"     19     20 WebUI.openBrowser('')     21     22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FbQixMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SljuqxRtUoDG')     23     24 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2'))     25     26 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload'))     27     28 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step'))     29     30 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload_1'))     31     32 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose'))     33     34 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download'))     35     36 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over'))     37     38 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools'))     39     40   </pre>  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| Kết quả  | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1 - openBrowser("")</td> <td>2.542s</td> </tr> <tr> <td>2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FbQixMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SljuqxRtUoDG")</td> <td>3.75s</td> </tr> <tr> <td>3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2"))</td> <td>1.310s</td> </tr> <tr> <td>4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload"))</td> <td>647ms</td> </tr> <tr> <td>5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step"))</td> <td>6.525s</td> </tr> <tr> <td>6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload_1"))</td> <td>560ms</td> </tr> <tr> <td>7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose"))</td> <td>2.429s</td> </tr> <tr> <td>8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download"))</td> <td>10.104s</td> </tr> <tr> <td>9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))</td> <td>1.934s</td> </tr> <tr> <td>10 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools"))</td> <td>591ms</td> </tr> </tbody> </table> | Step | Time | 1 - openBrowser("") | 2.542s | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FbQixMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SljuqxRtUoDG") | 3.75s | 3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2")) | 1.310s | 4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload")) | 647ms | 5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step")) | 6.525s | 6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload_1")) | 560ms | 7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose")) | 2.429s | 8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download")) | 10.104s | 9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over")) | 1.934s | 10 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools")) | 591ms |
| Step   | Time   |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 1 - openBrowser("")  | 2.542s   |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FbQixMQBzcnRjBmFwcF9pZAЕwAAЕe5sl_SljuqxRtUoDG") | 3.75s  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 3 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2"))            | 1.310s   |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 4 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload"))                       | 647ms  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 5 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step"))  | 6.525s   |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 6 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload_1"))                     | 560ms  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 7 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose"))   | 2.429s   |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 8 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download"))   | 10.104s  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 9 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over"))   | 1.934s   |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |
| 10 - click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools"))   | 591ms  |      |      |                     |        |  |       |   |        |  |       |   |        |  |       |  |        |  |         |  |        |  |       |

| <b>Tên Use Case</b>  | Pose Animator   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
|--|---|------|----------|---------------------|--------|--|--------|---|-------|--|-------|---|--------|--|-------|--|-------|--|-------|--|---------|---|--------|--|-------|
| <b>Test Case</b>   | TC_014  |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| <b>Mục tiêu</b>  | Kiểm tra luồng thực hiện của tính năng Pose Animator với Draw   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| <b>Test Script</b>   | <pre> Pose Animator Draw X 1* import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrxleHruA2FlbQIxMQBzcnRjBmFwcF9pZAEwAAEe5sl_SljuqxRtUoDG') 23 24 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2')) 25 26 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload')) 27 28 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step')) 29 30 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Draw')) 31 32 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Draw_absolute top-0 left-0 w-full h-full')) 33 34 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose')) 35 36 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) 37 38 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over')) 39 40 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools')) 41 42 </pre>  |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| <b>Kết quả</b>   | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Duration</th> </tr> </thead> <tbody> <tr><td>1 - openBrowser("")</td><td>2.585s</td></tr> <tr><td>2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrxleHruA2FlbQIxMQBzcnRjBmFwcF9pZAEwAAEe5sl_SljuqxRtUoDG")</td><td>3.161s</td></tr> <tr><td>3 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2'))</td><td>813ms</td></tr> <tr><td>4 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload'))</td><td>593ms</td></tr> <tr><td>5 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step'))</td><td>2.904s</td></tr> <tr><td>6 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Draw'))</td><td>609ms</td></tr> <tr><td>7 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Draw_absolute top-0 left-0 w-full h-full'))</td><td>580ms</td></tr> <tr><td>8 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose'))</td><td>407ms</td></tr> <tr><td>9 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download'))</td><td>10.100s</td></tr> <tr><td>10 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over'))</td><td>2.392s</td></tr> <tr><td>11 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools'))</td><td>629ms</td></tr> </tbody> </table> | Step | Duration | 1 - openBrowser("") | 2.585s | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrxleHruA2FlbQIxMQBzcnRjBmFwcF9pZAEwAAEe5sl_SljuqxRtUoDG") | 3.161s | 3 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2')) | 813ms | 4 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload')) | 593ms | 5 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step')) | 2.904s | 6 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Draw')) | 609ms | 7 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Draw_absolute top-0 left-0 w-full h-full')) | 580ms | 8 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose')) | 407ms | 9 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) | 10.100s | 10 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over')) | 2.392s | 11 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools')) | 629ms |
| Step   | Duration  |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 1 - openBrowser("")  | 2.585s  |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrxleHruA2FlbQIxMQBzcnRjBmFwcF9pZAEwAAEe5sl_SljuqxRtUoDG") | 3.161s  |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 3 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2'))            | 813ms   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 4 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload'))                       | 593ms   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 5 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step'))  | 2.904s  |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 6 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Draw'))   | 609ms   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 7 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/canvas_Draw_absolute top-0 left-0 w-full h-full'))               | 580ms   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 8 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose'))   | 407ms   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 9 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download'))   | 10.100s   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 10 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over'))  | 2.392s  |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |
| 11 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/span_Back to Tools'))   | 629ms   |      |          |                     |        |  |        |   |       |  |       |   |        |  |       |  |       |  |       |  |         |   |        |  |       |

| <b>Tên Use Case</b>   | Pose Animator   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
|---|---|------|------|---------------------------------|---------|---------------------|--------|---|--------|---|-------|--|-------|---|--------|--|-------|--|--------|---|-------|---|-------|---|-------|---|---------|---|-------|--|--------|
| <b>Test Case</b>  | TC_015  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| <b>Mục tiêu</b>   | Kiểm tra luồng thực hiện của tính năng Pose Animator với 3D   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| <b>Test Script</b>  | <pre>     Pose Animator 3D X 1*import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 20 WebUI.openBrowser('') 21 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕ5sL_SlujqxxRtUoDG') 23 24 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2')) 25 26 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload')) 27 28 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step')) 29 30 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_3D')) 31 32 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_left Arm')) 33 34 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Leg')) 35 36 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Arm')) 37 38 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose')) 39 40 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) 41 42 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over')) 43 44 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools')) 45 46   </pre>  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| <b>Kết quả</b>  | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1 - Test Cases/Pose Animator 3D</td> <td>28.965s</td> </tr> <tr> <td>  1 - openBrowser("")</td> <td>2.463s</td> </tr> <tr> <td>  2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕ5sL_SlujqxxRtUoDG")</td> <td>2.972s</td> </tr> <tr> <td>  3 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2'))</td> <td>968ms</td> </tr> <tr> <td>  4 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload'))</td> <td>576ms</td> </tr> <tr> <td>  5 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step'))</td> <td>2.790s</td> </tr> <tr> <td>  6 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_3D'))</td> <td>763ms</td> </tr> <tr> <td>  7 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_left Arm'))</td> <td>2.630s</td> </tr> <tr> <td>  8 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Leg'))</td> <td>660ms</td> </tr> <tr> <td>  9 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Arm'))</td> <td>630ms</td> </tr> <tr> <td>  10 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose'))</td> <td>800ms</td> </tr> <tr> <td>  11 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download'))</td> <td>10.101s</td> </tr> <tr> <td>  12 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over'))</td> <td>591ms</td> </tr> <tr> <td>  13 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools'))</td> <td>2.420s</td> </tr> </tbody> </table> | Step | Time | 1 - Test Cases/Pose Animator 3D | 28.965s | 1 - openBrowser("") | 2.463s | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕ5sL_SlujqxxRtUoDG") | 2.972s | 3 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2')) | 968ms | 4 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload')) | 576ms | 5 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step')) | 2.790s | 6 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_3D')) | 763ms | 7 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_left Arm')) | 2.630s | 8 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Leg')) | 660ms | 9 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Arm')) | 630ms | 10 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose')) | 800ms | 11 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download')) | 10.101s | 12 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over')) | 591ms | 13 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools')) | 2.420s |
| Step  | Time  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 1 - Test Cases/Pose Animator 3D   | 28.965s   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 1 - openBrowser("")   | 2.463s  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/?fbclid=IwY2xjawPQrlxleHRuA2FlbQIxMQBzcnRjBmFwcF9pZAЕwAAЕ5sL_SlujqxxRtUoDG") | 2.972s  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 3 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Pose AnimatorAnimate a character using _05b3c2'))             | 968ms   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 4 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/label_Drop image hereor click to upload'))                        | 576ms   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 5 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Next Step'))   | 2.790s  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 6 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_3D'))  | 763ms   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 7 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_left Arm'))  | 2.630s  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 8 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Leg'))   | 660ms   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 9 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Arm'))   | 630ms   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 10 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Animate Pose'))   | 800ms   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 11 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download'))   | 10.101s   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 12 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Start Over'))   | 591ms   |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |
| 13 - click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Back to Tools'))  | 2.420s  |      |      |                                 |         |                     |        |   |        |   |       |  |       |   |        |  |       |  |        |   |       |   |       |   |       |   |         |   |       |  |        |

## 2.10 Use case Object Remover

| Tên Use Case  | Object Remover   |         |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
|---|--|---------|--------|------|---------------------|------|--------|---|------|--------|--|------|--------|---|------|-------|--|------|-------|--|------|--------|---|------|---------|--------------------|------|-------|
| Test Case   | TC_016   |         |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| Mục tiêu  | Kiểm tra luồng thực hiện của tính năng Object Remover  |         |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| Test Script   | <pre> ★ Start Page   Background Remover   Object Remover X uploader 1# import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 19 ~20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") 23 24 WebUI.click(findTestObject('Object Repository/Object Remover/button_Start')) 25 26 WebUI.uploadFile(findTestObject('Object Remover/uploader'), 'E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif') 27 28 WebUI.click(findTestObject('Object Repository/Object Remover/canvas_Object Remover_absolute inset-0 w-fu_ff41e4')) 29 30 WebUI.click(findTestObject('Object Repository/Object Remover/button_Remove Object')) 31 32 WebUI.click(findTestObject('Object Repository/Object Remover/button_Download')) 33 34 WebUI.closeBrowser() 35 36 </pre>  |         |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| Kết quả   | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Result</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1 - openBrowser("")</td> <td>Pass</td> <td>2.891s</td> </tr> <tr> <td>2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")</td> <td>Pass</td> <td>3.691s</td> </tr> <tr> <td>3 - click(findTestObject("Object Repository/Object Remover/button_Start"))</td> <td>Pass</td> <td>1.406s</td> </tr> <tr> <td>4 - uploadFile(findTestObject("Object Remover/uploader"), "E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif")</td> <td>Pass</td> <td>523ms</td> </tr> <tr> <td>5 - click(findTestObject("Object Repository/Object Remover/canvas_Object Remover_absolute inset-0 w-fu_ff41e4"))</td> <td>Pass</td> <td>612ms</td> </tr> <tr> <td>6 - click(findTestObject("Object Repository/Object Remover/button_Remove Object"))</td> <td>Pass</td> <td>1.426s</td> </tr> <tr> <td>7 - click(findTestObject("Object Repository/Object Remover/button_Download"))</td> <td>Pass</td> <td>10.803s</td> </tr> <tr> <td>8 - closeBrowser()</td> <td>Pass</td> <td>341ms</td> </tr> </tbody> </table> | Step    | Result | Time | 1 - openBrowser("") | Pass | 2.891s | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") | Pass | 3.691s | 3 - click(findTestObject("Object Repository/Object Remover/button_Start")) | Pass | 1.406s | 4 - uploadFile(findTestObject("Object Remover/uploader"), "E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif") | Pass | 523ms | 5 - click(findTestObject("Object Repository/Object Remover/canvas_Object Remover_absolute inset-0 w-fu_ff41e4")) | Pass | 612ms | 6 - click(findTestObject("Object Repository/Object Remover/button_Remove Object")) | Pass | 1.426s | 7 - click(findTestObject("Object Repository/Object Remover/button_Download")) | Pass | 10.803s | 8 - closeBrowser() | Pass | 341ms |
| Step  | Result   | Time    |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 1 - openBrowser("")   | Pass   | 2.891s  |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")   | Pass   | 3.691s  |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 3 - click(findTestObject("Object Repository/Object Remover/button_Start"))  | Pass   | 1.406s  |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 4 - uploadFile(findTestObject("Object Remover/uploader"), "E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif") | Pass   | 523ms   |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 5 - click(findTestObject("Object Repository/Object Remover/canvas_Object Remover_absolute inset-0 w-fu_ff41e4"))  | Pass   | 612ms   |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 6 - click(findTestObject("Object Repository/Object Remover/button_Remove Object"))                                | Pass   | 1.426s  |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 7 - click(findTestObject("Object Repository/Object Remover/button_Download"))                                     | Pass   | 10.803s |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |
| 8 - closeBrowser()  | Pass   | 341ms   |        |      |                     |      |        |   |      |        |  |      |        |   |      |       |  |      |       |  |      |        |   |      |         |                    |      |       |

## 2.11 Use case Background Remover

| Tên Use Case  | Background Remover   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
|---|--|------|------|---------------------|--------|---|--------|--|--------|---|-------|--|-------|---|--------|--------------------|-------|
| Test Case   | TC_017   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| Mục tiêu  | Kiểm tra luồng thực hiện của tính năng Background Remover  |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| Test Script   | <pre>★ Start Page   Background Remover X uploader 1# import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 23 24 WebUI.click(findTestObject('Object Repository/Background Remover/button_Start')) 25 26 WebUI.uploadFile(findTestObject('Background Remover/uploader'), 'E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif') 27 28 WebUI.click(findTestObject('Object Repository/Background Remover/img_Original_max-w-full max-h-600px object-_a4c039')) 29 30 WebUI.click(findTestObject('Object Repository/Background Remover/button_Download')) 31 32 WebUI.closeBrowser() 33 34</pre>   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| Kết quả   | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <thead> <tr> <th>Step</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1 - openBrowser("")</td> <td>2.860s</td> </tr> <tr> <td>2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")</td> <td>3.768s</td> </tr> <tr> <td>3 - click(findTestObject("Object Repository/Background Remover/button_Start"))</td> <td>1.119s</td> </tr> <tr> <td>4 - uploadFile(findTestObject("Background Remover/uploader"), "E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif")</td> <td>539ms</td> </tr> <tr> <td>5 - click(findTestObject("Object Repository/Background Remover/img_Original_max-w-full max-h-600px object-_a4c039"))</td> <td>744ms</td> </tr> <tr> <td>6 - click(findTestObject("Object Repository/Background Remover/button_Download"))</td> <td>8.284s</td> </tr> <tr> <td>7 - closeBrowser()</td> <td>427ms</td> </tr> </tbody> </table> | Step | Time | 1 - openBrowser("") | 2.860s | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") | 3.768s | 3 - click(findTestObject("Object Repository/Background Remover/button_Start")) | 1.119s | 4 - uploadFile(findTestObject("Background Remover/uploader"), "E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif") | 539ms | 5 - click(findTestObject("Object Repository/Background Remover/img_Original_max-w-full max-h-600px object-_a4c039")) | 744ms | 6 - click(findTestObject("Object Repository/Background Remover/button_Download")) | 8.284s | 7 - closeBrowser() | 427ms |
| Step  | Time   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| 1 - openBrowser("")   | 2.860s   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")   | 3.768s   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| 3 - click(findTestObject("Object Repository/Background Remover/button_Start"))  | 1.119s   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| 4 - uploadFile(findTestObject("Background Remover/uploader"), "E:\\Hoang\\7ecf173e-3fc9-42aa-9fd1-2c3a6300ea36.jfif") | 539ms  |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| 5 - click(findTestObject("Object Repository/Background Remover/img_Original_max-w-full max-h-600px object-_a4c039"))  | 744ms  |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| 6 - click(findTestObject("Object Repository/Background Remover/button_Download"))                                     | 8.284s   |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |
| 7 - closeBrowser()  | 427ms  |      |      |                     |        |   |        |  |        |   |       |  |       |   |        |                    |       |

## 2.12 Use case Product Scene Generator

|              |  |
|--------------|--|
| Tên Use Case | Product Scene Generator  |
| Test Case    | TC_018   |
| Mục tiêu     | Kiểm tra luồng thực hiện của tính năng Product Scene Generator   |
| Test Script  | <pre> ★ Start Page   apparel_model   photoshoot   photoshoot_startover   Outfit   product X 1@ import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint() 2@ WebUI.openBrowser("") 3@ WebUI.navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") 4@ WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Product Scene GeneratorCreate various p_e91bf3')) 5@ WebUI.uploadFile(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/upload_product'), '/Users/v.h.yen/Desktop/shopping.webp') 6@ WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Side')) 7@ WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Left Side')) 8@ WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photos (2) (1)')) 9@ WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download All (1)')) 10@ WebUI.closeBrowser() </pre>         |
| Kết quả      | <ul style="list-style-type: none"> <li>✓ Test Cases/product 20.314s</li> <li>&gt; ✓ 1 – openBrowser("") 4.234s</li> <li>✓ 2 – navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") 2.361s</li> <li>✓ 3 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_Product Scene GeneratorCreate various p_e91bf3")) 1.186s</li> <li>✓ 4 – uploadFile(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/upload_product"), "/Users/v.h.yen/Desktop/shoppin... 476ms</li> <li>✓ 5 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Right Side")) 448ms</li> <li>✓ 6 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Left Side")) 366ms</li> <li>✓ 7 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Photos (2) (1)")) 461ms</li> <li>✓ 8 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download All (1)")) 10.180s</li> <li>✓ 9 – closeBrowser() 155ms</li> </ul> |

## 2.13 Use case Photobooth

|              |  |
|--------------|--|
| Tên Use Case | Photobooth   |
| Test Case    | TC_019   |
| Mục tiêu     | Kiểm tra luồng thực hiện của tính năng Photobooth  |
| Test Script  | <pre> ★ Start Page   apparel_model   photoshoot   photoshoot_startover   Outfit   product   photobooth X 10 import com.kms.katalon.core.testcase.TestCase as TestCase 11 import com.kms.katalon.coretestdata.TestData as TestData 12 import com.kms.katalon.core.testng.keyword.TestNGBuiltInKeywords as TestNGKW 13 import com.kms.katalon.core.testobject.TestObject as TestObject 14 import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS 15 import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI 16 import com.kms.katalon.core.windows.keyword.WindowsBuiltinKeywords as Windows 17 import internal.GlobalVariable as GlobalVariable 18 import org.openqa.selenium.Keys as Keys 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 23 24 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI Photo BoothCreate fun photobooth str_9db280')) 25 26 WebUI.uploadFile(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/uploadImagePhotobooth'), '') 27 28 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_4 Photos')) 29 30 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Strip')) 31 32 WebUI.click(findTestObject('Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download (1)')) 33 34 WebUI.closeBrowser() 35 36 </pre> |
| Kết quả      | <ul style="list-style-type: none"> <li>✓ Test Cases/photobooth 23.807s             <ul style="list-style-type: none"> <li>✓ 1 – openBrowser("") 2.597s</li> <li>✓ 2 – navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") 5.586s</li> <li>✓ 3 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/div_AI Photo BoothCreate fun photobooth str_9db280")) 1.36s</li> <li>✓ 4 – uploadFile(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/uploadImagePhotobooth"), "/User... 449ms</li> <li>✓ 5 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_4 Photos")) 509ms</li> <li>✓ 6 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Generate Strip")) 4.97s</li> <li>✓ 7 – click(findTestObject("Object Repository/Page_AI Photofun - Studio Chp nh AI/button_Download (1)")) 8.982s</li> <li>✓ 8 – closeBrowser() 235ms</li> </ul> </li> </ul>   |

## 2.14 Use case Concept Studio

|   |  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
|---|--|---|--------|--|--------|---|-------|---|-------|---|-------|---|--------|---|--------|---|---------|---------------------|-------|
| Tên Use Case  | Concept Studio   |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| Test Case   | TC_020   |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| Mục tiêu  | Kiểm tra luồng thực hiện của tính năng Concept Studio  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| Test Script   | <pre>* Start Page   *import static com.kms.katalon.core.checkpoint.CheckpointFactory.findCheckpoint 19 20 WebUI.openBrowser('') 21 22 WebUI.navigateToUrl('https://ai-photofun-842124311944.us-west1.run.app/') 23 24 WebUI.click(findTestObject('Object Repository/Concept Studio/button_Start')) 25 26 WebUI.uploadFile(findTestObject('Concept Studio/uploader_1'), 'E:\\Hoang\\OIP.png') 27 28 WebUI.uploadFile(findTestObject('Concept Studio/uploader_2'), 'E:\\Hoang\\Christmas.png') 29 30 WebUI.click(findTestObject('Object Repository/Concept Studio/button_Create Studio Assets')) 31 32 WebUI.click(findTestObject('Object Repository/Concept Studio/button_Sipping Coffee')) 33 34 WebUI.click(findTestObject('Object Repository/Concept Studio/button_Generate (1)')) 35 36 WebUI.click(findTestObject('Object Repository/Concept Studio/svg_Final Images_lucide lucide-download h-5 w-5')) 37 38 WebUI.closeBrowser() 39 40</pre>  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| Kết quả   | <p>Runs: 1/1      Passes: 1      Failures: 0      Errors: 0      Skips: 0</p> <table border="1"> <tbody> <tr> <td>2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")</td> <td>3.119s</td> </tr> <tr> <td>3 - click(findTestObject("Object Repository/Concept Studio/button_Start"))</td> <td>1.192s</td> </tr> <tr> <td>4 - uploadFile(findTestObject("Concept Studio/uploader_1"), "E:\\Hoang\\OIP.png")</td> <td>547ms</td> </tr> <tr> <td>5 - uploadFile(findTestObject("Concept Studio/uploader_2"), "E:\\Hoang\\Christmas.png")</td> <td>525ms</td> </tr> <tr> <td>6 - click(findTestObject("Object Repository/Concept Studio/button_Create Studio Assets"))</td> <td>602ms</td> </tr> <tr> <td>7 - click(findTestObject("Object Repository/Concept Studio/button_Sipping Coffee"))</td> <td>9.291s</td> </tr> <tr> <td>8 - click(findTestObject("Object Repository/Concept Studio/button_Generate (1)"))</td> <td>1.126s</td> </tr> <tr> <td>9 - click(findTestObject("Object Repository/Concept Studio/svg_Final Images_lucide lucide..."))</td> <td>10.544s</td> </tr> <tr> <td>10 - closeBrowser()</td> <td>366ms</td> </tr> </tbody> </table> | 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/") | 3.119s | 3 - click(findTestObject("Object Repository/Concept Studio/button_Start")) | 1.192s | 4 - uploadFile(findTestObject("Concept Studio/uploader_1"), "E:\\Hoang\\OIP.png") | 547ms | 5 - uploadFile(findTestObject("Concept Studio/uploader_2"), "E:\\Hoang\\Christmas.png") | 525ms | 6 - click(findTestObject("Object Repository/Concept Studio/button_Create Studio Assets")) | 602ms | 7 - click(findTestObject("Object Repository/Concept Studio/button_Sipping Coffee")) | 9.291s | 8 - click(findTestObject("Object Repository/Concept Studio/button_Generate (1)")) | 1.126s | 9 - click(findTestObject("Object Repository/Concept Studio/svg_Final Images_lucide lucide...")) | 10.544s | 10 - closeBrowser() | 366ms |
| 2 - navigateToUrl("https://ai-photofun-842124311944.us-west1.run.app/")                         | 3.119s   |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 3 - click(findTestObject("Object Repository/Concept Studio/button_Start"))                      | 1.192s   |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 4 - uploadFile(findTestObject("Concept Studio/uploader_1"), "E:\\Hoang\\OIP.png")               | 547ms  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 5 - uploadFile(findTestObject("Concept Studio/uploader_2"), "E:\\Hoang\\Christmas.png")         | 525ms  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 6 - click(findTestObject("Object Repository/Concept Studio/button_Create Studio Assets"))       | 602ms  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 7 - click(findTestObject("Object Repository/Concept Studio/button_Sipping Coffee"))             | 9.291s   |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 8 - click(findTestObject("Object Repository/Concept Studio/button_Generate (1)"))               | 1.126s   |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 9 - click(findTestObject("Object Repository/Concept Studio/svg_Final Images_lucide lucide...")) | 10.544s  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |
| 10 - closeBrowser()   | 366ms  |   |        |  |        |   |       |   |       |   |       |   |        |   |        |   |         |                     |       |

# 3 Working Software

Đường dẫn:

[https://drive.google.com/file/d/1K\\_cKF5zJQv6j\\_lZTdPcQ4wKVG5FwGSoJ/view?usp=sharing](https://drive.google.com/file/d/1K_cKF5zJQv6j_lZTdPcQ4wKVG5FwGSoJ/view?usp=sharing)