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Software Test Engineer - SPS



# Flipkart



# Objective



## Manual Testing

Overview  
Test Plan  
Test Plan Identifier  
Features  
Test Strategy  
Deliverables



## Automation Testing

Login Functionality  
POM  
DDT  
Allure ReportHtml  
Reports



## CI/CD

Git  
Git hub  
Jenkins



## Mobile Testing

Appium  
Android Studio  
Vysor

# Overview



## Main Page

Homepage  
About Us  
Privacy Policy

Response



## Product Page

Dashboard  
Product Filter  
Cart

Usability



## Product Description

Title  
Image  
Review

Accuracy

# Test Plan Overview



REV	AUTHOR	EDITS	DATE
1.0	SHALU	Initial drafts	12/12/2024

Test Plan Identifier:  
1.0\_Flipkart\_tplan\_v1.0.doc

Document History

Features To Be Tested	Priority
New User Registration	HIGH
User login	HIGH
Product Filtering	MEDIUM
Cart	LOW
Book order	HIGH
Cancellation	HIGH
Customer Support	MEDIUM

## Features

Features Need Not To Be Tested: “About Us” ,  
“Privacy Policy” and  
“Terms and Conditions”

# Test Strategy

- ❑ Functionality testing
  - ✓ Verify critical features like registration, login, order management, delivery details, add to cart, product reviews and customer support.
  - ✓ Smoke and sanity testing
- ❑ Usability testing: Evaluate user-friendliness by checking the accuracy of information, intuitive navigation, and identifying areas for improvement.

# Test Plan

## Test Plan - Flipkart

### 1. Test Plan Identifier:

File Name : 1.0\_Flipkart\_TPlan\_v1.0.doc  
Location : Hyderabad

### 2. Document History:

S.No	Author	Edits	Date
1.0	Shalu Pradhan	Initial draft	10-12-2024

### 3. Introduction:

The purpose of this test plan is to outline the testing approach for the Flipkart website (<https://www.flipkart.com>). This test plan will define the scope, objectives, resources, schedule, and methodology used to ensure the website's functionality meet the specified requirements.

### 4. Features to be Tested:

#### 4.1. Homepage Functionality:

- Display of banners, navigation menus, featured products, etc.
- User interaction with homepage elements.
- Responsiveness of the homepage across devices (mobile, tablet, desktop).

#### 4.2. Product Category Pages:

- Correct display of products within each category.
- Sorting and filtering functionality for product categories.
- Pagination and loading of additional products.

#### 4.3. Product Detail Pages:

- Display of detailed product information (images, descriptions, pricing, availability).
- Correct functionality of "Add to Cart" and "Add to Wishlist" buttons.
- Availability of product specifications, reviews, and ratings.

#### 4.4. Search Functionality:

- User can search for products using keywords.
- Autocomplete suggestions while typing in the search bar.
- Correct display of search results (relevant products, categories, etc.).

#### 4.5. User Registration and Login:

- User registration via email and social media (if applicable).
- User login and password recovery processes.
- Profile management (updating user information, passwords, and preferences).

#### 4.6. Shopping Cart and Checkout Process:

- Adding/removing products from the cart.
- View/edit cart items (quantity, product details).
- Smooth checkout process (address, payment, order summary).
- Integration with payment gateways (e.g., credit card, UPI, net banking).

#### 4.7. Mobile and Cross-Browser Compatibility:

- Testing across various browsers (Chrome, Firefox, Safari, Edge).
- Testing on different devices (Desktop, Tablets, Smartphones).
- Validation of responsive design and layout consistency.

### 5. Features Not to be Tested:

#### 5.1. Backend and Database:

- Testing of backend services, database queries, and server-side components is out of scope for this test plan.
- Database backups, restores, and optimization are not included.

#### 5.2. Third-Party Integrations:

- Payment gateway integrations (unless basic functionality is tested).
- External APIs and third-party services (shipping providers, inventory management, etc.) unless they directly affect user functionality.

#### 5.3. Marketing Features:

- Testing of promotional banners, discounts, and marketing campaigns, unless these affect core website functionality.
- Social media integrations and marketing analytics are excluded.

#### 5.4. Administrative Features:

- Admin panel and backend user interfaces are not within the scope of this test plan.
- Admin-level functionalities like content management, product management, and inventory updates are out of scope.

#### 5.5. Non-Critical Features:

# Test Plan

- Features such as "related products" or "recently viewed items" that are not critical to the user experience may not be thoroughly tested unless specific requirements exist.

## 6. Test Objectives:

- Ensure all key functionalities of the website are working correctly.
- Verify user interactions with the site (e.g., browsing, searching, account management, and purchasing).
- Assess the website's usability for an optimal customer experience.
- Validate the responsiveness of the site across different devices and browsers.
- Ensure all links, images, and other content are correctly displayed.

## 7. Test Scope:

### In-Scope:

- Homepage functionality (navigation, banner display, etc.)
- Product category and product listing pages
- Product detail pages
- User registration and login functionality
- Add to cart, checkout, and payment processes
- Search functionality
- Order confirmation and tracking features
- User account management (e.g., updating address, payment methods)
- Cross-browser and cross-device compatibility

### Out-of-Scope:

- Backend and database testing (unless specifically requested)
- Third-party integrations (payment gateways, delivery partners, etc.)
- Non-UI-related issues (system/database architecture)

## 8. Test Strategy:

### Types of Testing:

- **Functional Testing:** To verify that all functional aspects of the website (e.g., search, cart, login, etc.) are working as intended.
- **Usability Testing:** To ensure that the website is user-friendly and provides a positive experience.
- **Compatibility Testing:** To verify that the website works correctly across different browsers, operating systems, and devices.
- **Regression Testing:** To ensure that new features or updates do not break existing functionality.

## 9. Test Deliverables:

- Test Plan Document
- Test Case Documents
- Defect Logs

## 10. Test Environment:

- **Browser:** Google Chrome, Mozilla Firefox, Safari, Microsoft Edge (latest versions)
- **Operating Systems:** Windows 10, macOS, Android (latest versions), iOS (latest versions)
- **Devices:** Desktop, Tablet, Mobile (various screen sizes)
- **Internet Connection:** Broadband (minimum 10 Mbps)

## 11. Test Schedule:

Test Phase	Start Date	End Date
Test Planning	10/12/2024	10/12/2024
Test Case Creation	11/12/2024	11/12/2024
Test Execution	12/12/2024	12/12/2024
Test Closure	12/12/2024	12/12/2024

## 12. Resources:

### Testers:

Shalu Pradhan	Functional Testing
Shalu Pradhan	Usability Testing

### Tools:

- **Bug Tracking Tool:** JIRA
- **Browser Testing Tool:** Chrome, Firefox, Safari, Edge

## 13. Risk Assessment:

- **Limited access to production environment:** Might affect testing with live data.
- **Dependency on third-party integrations:** Payment gateways or other third-party APIs might not be fully tested or could introduce issues.
- **Device/Browser Compatibility:** Wide range of devices and browsers might lead to inconsistent experiences across platforms.



# Test Plan

## 14. Exit Criteria:

The testing phase will be considered complete when:

- All high-severity defects are fixed.
- Test cases have been executed with a pass rate of at least 90%.
- Test execution reports are shared with the stakeholders.
- Final test summary report is submitted and approved.

## 15. Defect Tracking:

- All defects found during testing will be logged in the defect tracking tool.
- Defects will be categorized by severity (e.g., Critical, High, Medium, Low).
- A defect report will be created and shared with the development team for resolution.

# Test Cases

A	B	C	D	E	F	G	H	I
Requirement ID	TestCase ID	Test Case Title	Preconditions	Test Data	Test Steps	Expected Result	Actual Result	Status
S1_001	T1_001	Verify signup functionality	User should have valid contact number	Contact Number : +91 ***** OTP: ****	1. Open Chrome browser and enter URL: "https://www.flipkart.com/" 2. Mouse hover on "Login" text. 3. Click on "New Customer?" 4. Enter mobile number. 5. Click on Continue button. 6. Enter your valid OTP 7. Click on "Sign Up" button 8. User signed up and redirected to homepage.	User registered successfully using mobile number.		PASS
S1_002	T1_002	Verify login functionality	User should have valid contact number	Contact Number : +91 ***** OTP: *****	1. Open Chrome browser and enter URL: "https://www.flipkart.com/" 2. Click on "login" button 3. Enter your mobile number in text box 4. Click on "request for OTP" button 5. Enter your valid OTP 6. Click on "verify" button 7. User logged in and redirected to homepage.	User logged in successfully using mobile number		PASS
S1_003	T1_003	Verify the customer is not able to login without credential	User must be in login page		1. Open Chrome browser and navigate to login page. 2. Click on "Request OTP" button. 3. "Please enter valid Email ID/Mobile number" message appeared below "Enter email/mobile number" text box.	User was not able to login		PASS
					1. Open your browser and navigate to			

# Test Cases

S1_005	T1_005	Verify adding product to cart	User should be looged in	search item : "Saree"	<ol style="list-style-type: none"> <li>1.Open browser and enter URL: "https://www.flipkart.com/"</li> <li>2. Click on product serach text box.</li> <li>3. Enter product name.</li> <li>4.Click on enter button.</li> <li>5. Click on searched product.</li> <li>6. Scroll down and navigate to "ADD TO CART" button.</li> <li>7. Click on "ADD TO CART" button.</li> <li>8. Click on "Cart" icon header section to check cart product.</li> </ol>	Product should be added to cart		PASS
S1_006	T1_006	Verify address book management functional	User should be logged in	Valid address details	<ol style="list-style-type: none"> <li>1. Open Chrome browser and enter URL: "https://www.flipkart.com/account/?rd=0&amp;link=home_account"</li> <li>2. Click on "Manage Address"</li> <li>3. Click on "Add new address"</li> <li>4. Enter name, mobile number, address details</li> <li>5. Chosse address type "home" or "office"</li> <li>6. Click on "save" button</li> </ol>	Address book managed successfully		PASS
S1_007	T1_007	Verify product review functionality	User should have purchased a product	review : "demo product"	<ol style="list-style-type: none"> <li>1. Login with valid credentials</li> <li>2. Mouse hover to "Account" section.</li> <li>3. Click on "Orders" icon.</li> <li>4. Select a product and click it.</li> <li>5. Scroll down and navigate of review section.</li> </ol>	Review should be submitted successfully		PASS

# Test Cases

R1_007	T1_007	Verify product review functionality	User should have purchased a product	review : "demo product"	1. Login with valid credentials 2. Mouse hover to "Account" section. 3. Click on "Orders" icon. 4. Select a product and click it. 5. Scroll down and navigate of review section. 5. Click "Write a Review" 6. Enter review and submit 7. Check review is displayed on product page	Review should be submitted successfully	Pass
R1_008	T1_008	Verify customer support functionality	User must be logged in		1. Enter the URL: "https://www.flipkart.com/" 2. Login with valid credentials 3. Mouse hover on upper right corner icon. 4. Click on "24*7 support". 5. Scroll down and click on product for that we need customer support. 6. Click on "Chat with us" element. 7. Enter query in text section. 8. Click submit button	Support ticket should be created successfully	Pass
R1_009	T1_009	Verify order cancellation	User should have placed an order		1. Open Chrome browser and navigate to URL: "https://www.flipkart.com/account/orders?link=home_orders" 2. Select an order to cancel 3. Click on the "Cancel order" button 4. Select a reason for cancellation. 5. Confirm the cancellation 6. Verify that the order status is changed to "Cancelled" 7. Check that the user receives a cancellation confirmation on registered mobile number.	User has account already and able to sign in.	Pass

# Peer Review



**Raghavendra Bn**

to me ▼

Tue, Dec 10, 2:41PM (2 days ago)



Dear Shalu Pradhan,

I hope this message finds you well. I wanted to take a moment to thank you for sharing the documents related to the MakeMyTrip project. I have received the Test Cases, Bug Report, and Test Plan Document that you have prepared. I truly appreciate the effort and detail you have put into compiling these documents, as they are crucial for the project's success.

I will be reviewing the documents thoroughly to ensure that all aspects of the project are covered and that the quality standards are met. Once I have completed my review, I will provide you with detailed feedback and any suggestions for improvement if necessary. If I come across any points that require clarification or further input from your side, I will make sure to reach out to you promptly.

Thank you once again for your hard work and dedication to this project. Your contributions are highly valued, and I look forward to collaborating with you further to achieve our goals.

Good To GO

Best regards,  
Raghavendra Bn

\*\*\*

# Defect Report

Defect ID	Defect Description	Steps to reproduce	Severity	Status	Created by	Assigned to	Screenshot
1	OTP was not getting generated after we enter the mobile number and click on continue button.	<ol style="list-style-type: none"> <li>1. Launch google.com and open EaseMyTrip website.</li> <li>2. Click on Login or SignUp button and then click on Customer Login option.</li> <li>3. Enter mobile number.</li> <li>4. Click on continue button for OTP.</li> </ol>	major	Open	shalu	Raghavendra BN	
2	Amazon payment update method is not working after updating it.	<ol style="list-style-type: none"> <li>1. Launch google.com and Log into your Amazon account.</li> <li>2. Browse and add items to your cart.</li> <li>3. Click "Proceed to checkout."</li> <li>4. Provide your shipping address.</li> <li>5. Choose or add a payment method</li> <li>6. Click "Place your order" to complete the payment.</li> </ol>	major	Open	shalu	Raghavendra BN	
3	Image not uploading in pinterst website.	<ol style="list-style-type: none"> <li>1. Launch google.com</li> <li>2. Log in to your Pinterest account and click the "+" icon.</li> <li>3. Select "Create Pin" and click "Upload Image."</li> <li>4. Choose the image file from your device.</li> </ol>	minor	Open	shalu	Raghavendra BN	



# Automation Testing & Page Object Model

**Automation testing** involves using software tools to execute pre-scripted tests on a software application before it is released into production. This helps in identifying defects, ensuring the software behaves as expected, and improving efficiency by reducing manual testing efforts.

The **Page Object Model (POM)** is a design pattern in automation testing that creates an object repository for web UI elements. It enhances test maintenance and reduces code duplication by encapsulating the page elements and actions in separate classes, making the tests more readable and easier to manage.

# Automation of Test Case



Product filter functionality



Product is added into Cart



# Hybrid Framework

## Page Object Model

- Reusability
- Maintainability
- Readability

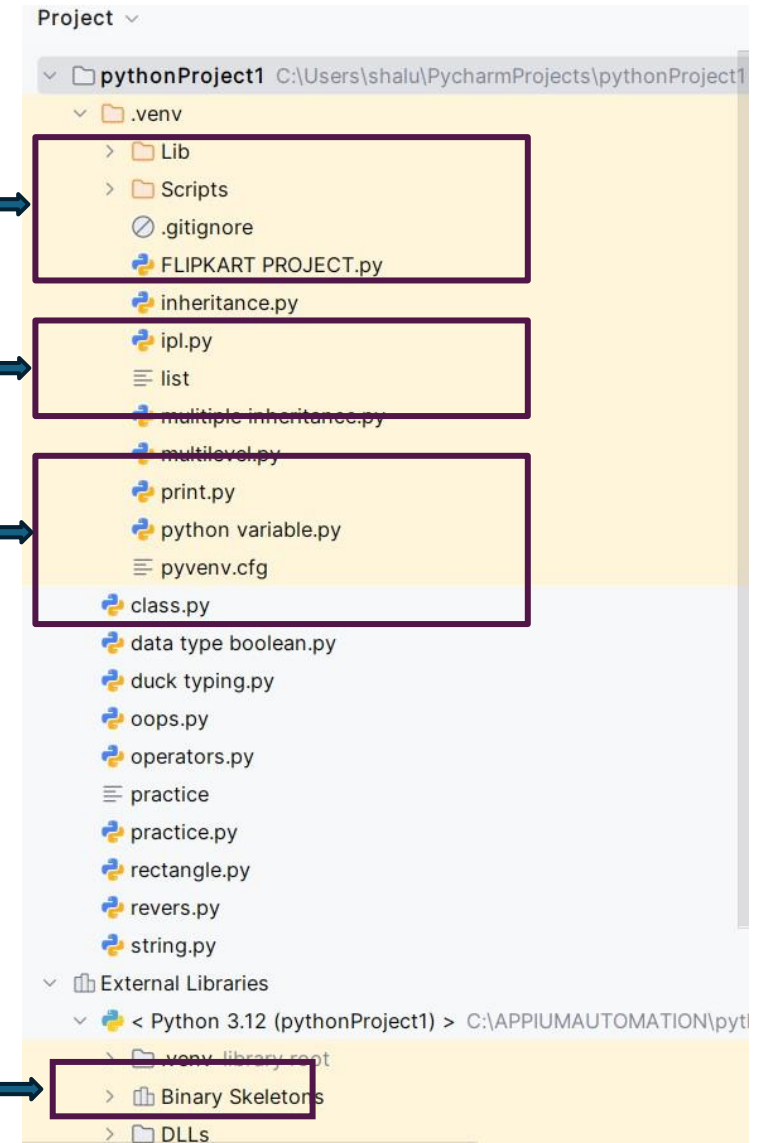
Home Page →

Login Page →

Product Page →

## Data Driven Testing

PyXL →





## Tech Stack

- Selenium WebDriver 4.27.1
- Allure 2.13.5
- Python 3.12.0
- Jenkins 2.479.2
- GitHub 2.43.3

# I)Product Filter

Flipkart

Search for products, brands and more

Login

Become a Seller

More

Cart

Electronics

TVs & Appliances

Men

Women

Baby & Kids

Home & Furniture

Sports, Books & More

Flights

Offer Zone

Filters

CLEAR ALL

X Bollywood

CATEGORIES

Clothing and Accesso...

Sarees and Saree Ess...

Sarees

Women's Sarees

PRICE

Min

to

1500+

BRAND

GENDER

DISCOUNT

PATTERN

SAREE TYPE

Clear all

Search Saree Type

Bollywood

Daily Wear

Banarasi

Kanjivaram

Bandhani

Handloom

46 MORE

Home > Clothing and Accessories > Sarees and ... > Sarees > Women's Sa...

Women's Sarees (Showing 1 - 40 products of 42,891 products)

Sort By Popularity Price -- Low to High Price -- High to Low Newest First

Sponsored

DHARMEE

Embellished, Self Design, Solid/...

Green

Assured

₹829 ₹1,999 58% off

Sponsored

Snija Fashion

Embellished Bollywood Organza Saree

Multicolor

₹609 ₹2,999 79% off

Free delivery

EOSS Special Deal

PD CLOTH VILLA

Embellished, Solid/Plain Bollywood Satin Saree

Beige

₹599 ₹3,099 80% off

Free delivery

EOSS Special Deal

Samah

Embroidered Bollywood Georget...

Mustard, Gold

Assured

₹1,049 ₹5,031 79% off

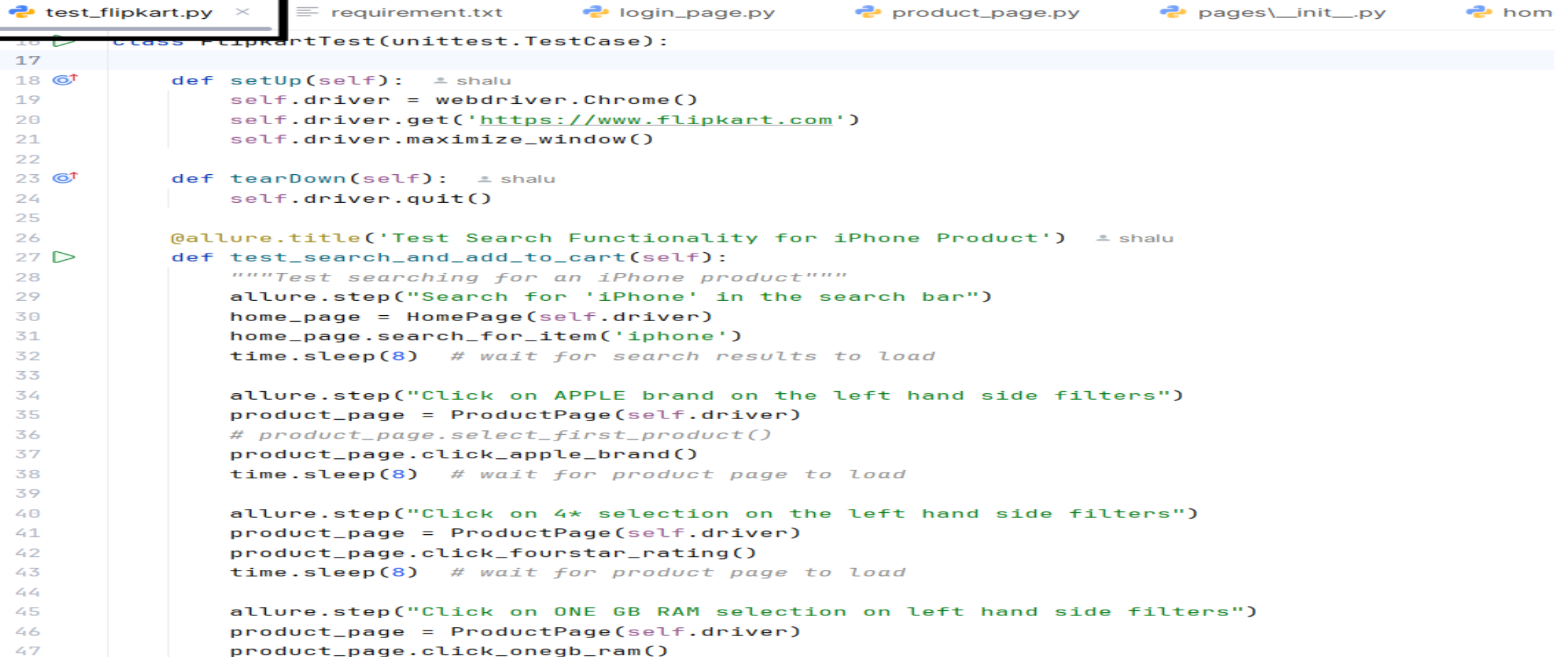
Only 4 left

# Home Page

test\_flipkart.py requirement.txt login\_page.py product\_page.py pages\\_\_init\_\_.py home\_page.py x

```
1 from selenium.webdriver.common.by import By
2 from selenium.webdriver.common.keys import Keys
3 from selenium.webdriver.support.ui import WebDriverWait
4 from selenium.webdriver.support import expected_conditions as EC
5
6
7 class HomePage: 2 usages  shalu
8     def __init__(self, driver):  shalu
9         self.driver = driver
10
11     # Locators
12     SEARCH_BAR = (By.NAME, 'q')
13     SEARCH_BUTTON = (By.XPATH, '//button[@type="submit"]')
14
15     def search_for_item(self, item_name): 1 usage  shalu
16         search_bar = WebDriverWait(self.driver, timeout: 10).until(
17             EC.presence_of_element_located(self.SEARCH_BAR)
18         )
19         search_bar.clear()
20         search_bar.send_keys(item_name)
21         search_bar.send_keys(Keys.RETURN)
22
23     def click_search_button(self):  shalu
24         search_button = WebDriverWait(self.driver, timeout: 10).until(
25             EC.element_to_be_clickable(self.SEARCH_BUTTON)
26         )
27         search_button.click()
28
```

# Main Test



```
test_flipkart.py x requirement.txt login_page.py product_page.py pages\__init__.py hom
16 class FlipkartTest(unittest.TestCase):
17
18     def setUp(self):  # shalu
19         self.driver = webdriver.Chrome()
20         self.driver.get('https://www.flipkart.com')
21         self.driver.maximize_window()
22
23     def tearDown(self):  # shalu
24         self.driver.quit()
25
26     @allure.title('Test Search Functionality for iPhone Product')  # shalu
27     def test_search_and_add_to_cart(self):
28         """Test searching for an iPhone product"""
29         allure.step("Search for 'iPhone' in the search bar")
30         home_page = HomePage(self.driver)
31         home_page.search_for_item('iphone')
32         time.sleep(8)  # wait for search results to load
33
34         allure.step("Click on APPLE brand on the left hand side filters")
35         product_page = ProductPage(self.driver)
36         # product_page.select_first_product()
37         product_page.click_apple_brand()
38         time.sleep(8)  # wait for product page to load
39
40         allure.step("Click on 4★ selection on the left hand side filters")
41         product_page = ProductPage(self.driver)
42         product_page.click_fourstar_rating()
43         time.sleep(8)  # wait for product page to load
44
45         allure.step("Click on ONE GB RAM selection on left hand side filters")
46         product_page = ProductPage(self.driver)
47         product_page.click_onegb_ram()
```

## II) Product Selected in cart(screen shot)

Flipkart  
Explore Plus

Search for products, brands and more


Login






Become a Seller

More

Cart

Electronics TVs & Appliances Men Women Baby & Kids Home & Furniture Sports, Books & More Flights Other Zone





Home > Clothing and... > Sarees and ... > Sarees > Women's Sa... > KISSAH Wo... > KISSAH Print...

KISSAH




Printed Bollywood Georgette Saree (Purple)

Special price

₹325 ₹1,499 78% off

3★ 5 ratings and 0 reviews

Color



Available offers

Bank Offer 5% Unlimited Cashback on Flipkart Axis Bank Credit Card T&C

Bank Offer 10% off up to ₹750 on Axis Bank Credit Cards (incl. migrated ones), on orders of ₹2,500 and above T&C

Bank Offer 10% off up to ₹750 on HDFC Bank Credit Card EMI on 3 months tenure. Min. Txn Value: ₹5000 T&C

Special Price Get extra 18% off (price inclusive of cashback/coupon) T&C

+9 more offers

Deliver to

Services

Cash on Delivery available

Enter delivery pincode Check

Delivery by 15 Dec, Sunday | Free

if ordered before 1:59 AM

View Details

Seller

Kissah 3.3★

10 Days Return Policy

See other sellers

Product Details

GO TO CART

BUY NOW


Flipkart  
Explore Plus

Search for products, brands and more

Login

From Saved Addresses

Enter Delivery Pincode



KISSAH Printed Bollywood Georgette Saree  
Purple

Seller:Kissah

₹1,499 ₹325 78% Off 1 offer available

Delivery by Sun Dec 15 | Free

- 1 +

SAVE FOR LATER

REMOVE

PLACE ORDER

PRICE DETAILS

Price (1 item)	₹1,499
Discount	- ₹1,174
Delivery Charges	Free
Total Amount	₹325

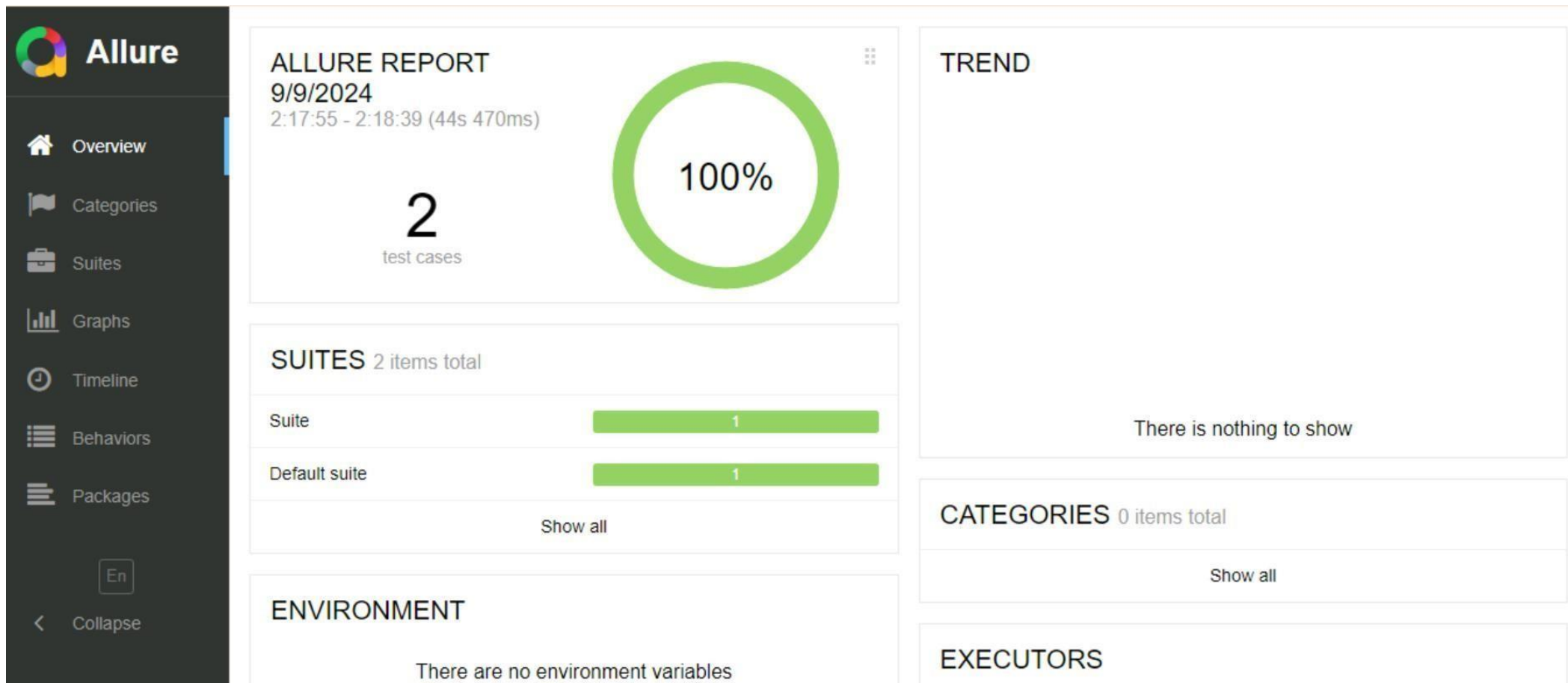
You will save ₹1,174 on this order

Safe and Secure Payments.Easy returns.100% Authentic products.

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# Allure Report







# Mobile Testing

Mobile testing is the process by which mobile apps and digital experiences (like websites and ecommerce) are tested for relevance, functionality, usability, and consistency. Perhaps more non-traditionally, mobile testing has expanded to include real-world testing. Going beyond traditional mobile tests on apps and websites, people can use their camera and microphone to test and record real-world experiences like in-store walkthroughs, product unboxing and setup, and more.













# Appium Desired Capability


[Appium Server](#)  Sauce Labs  BrowserStack  LAMBDATEST  mobitru [Select Cloud Providers](#)

Remote Host  Remote Port  Remote Path  ☐ SSL


> Advanced Settings

Capability Builder [Saved Capability Sets 5](#) [Attach to Session...](#)

Name	Created	Actions
Appium	2024-12-06	 
launch_simplex_app	2024-12-11	 
launch_single_app	2024-12-11	 
3rd_launch	2024-12-11	 
4th_launch	2024-12-11	 

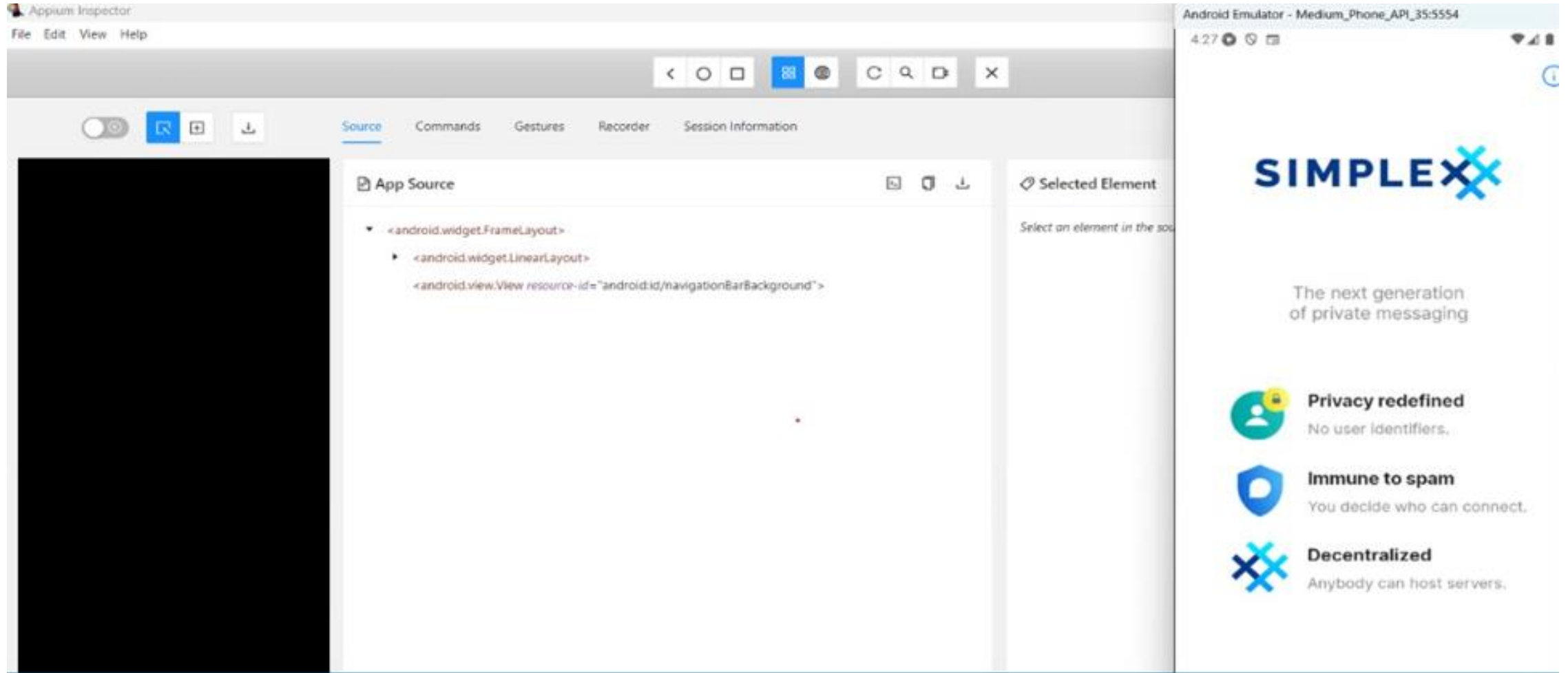
launch\_simplex\_app 

```
{
  "platformName": "android",
  "appium:automationName": "uiautomator2",
  "appium:deviceName": "emulator-5554",
  "appium:ensureWebviewsHavePages": true,
  "appium:nativeWebScreenshot": true,
  "appium:newCommandTimeout": "8000",
  "appium:connectHardwareKeyboard": true,
  "appium:appPackage": "chat.simplex.app",
  "appium:appActivity": "chat.simplex.app.MainActivity"
}
```



[Capabilities Documentation](#)

# Output in Emulator-5554





Thank You