

# RE-ASSIGNMENT-2

*Automated GUI-based testing*

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## **INTRODUCTION**

In this assignment, the website <https://store.steampowered.com/> has been automated using selenium and JUnit 4. This report also involves the list of the feature requirements which have been specified with the user stories and the acceptance criteria, followed by the time measurements of the executed test cases and a discussion. Steam is a video game digital distribution service by Valve. It also provides the user with installation and automatic updating of games, and community features such as friends lists and groups, cloud storage, and in-game voice and chat functionality.

## **FEATURE REQUIREMENTS**

The following are the feature requirements for the website <https://store.steampowered.com/> which is to be automated. The user stories along with the acceptance criteria are as shown below.

### **1. Search for games**

- USER STORY: As a user I want to search for games available on the website.
- ACCEPTANCE CRITERIA: The user is able to search for a specific name by typing in the name of the game in the search bar and the search results of that game appear on the screen.

### **2. Adding item to cart**

- USER STORY: As a user I want to add desired game on to my cart.
- ACCEPTANCE CRITERIA: The user first searches for the product and selects a product, then clicks on 'add to cart' button. Then the item is added onto the cart.

### **3. Show product preferences**

- **USER STORY:** As a user I want to filter the product preferences to be included in my store on the website.
- **ACCEPTANCE CRITERIA:** The user clicks on the profile settings and clicks on the ‘preferences button’. Then a list of categories and types of products appear where the user selects according to which are to be included in the store.

## **TIME MEASUREMENTS**

The total execution time of the test suite is 38.066 seconds. The execution time of each test case is as shown in the table below.

FEAUTURE	EXECUTION TIME
Search for games	9.928s
Adding item to cart	17.205s
Show product preferences	15.309s

## **SCREENSHOT OF SUCCESSFUL TEST EXECUTION**

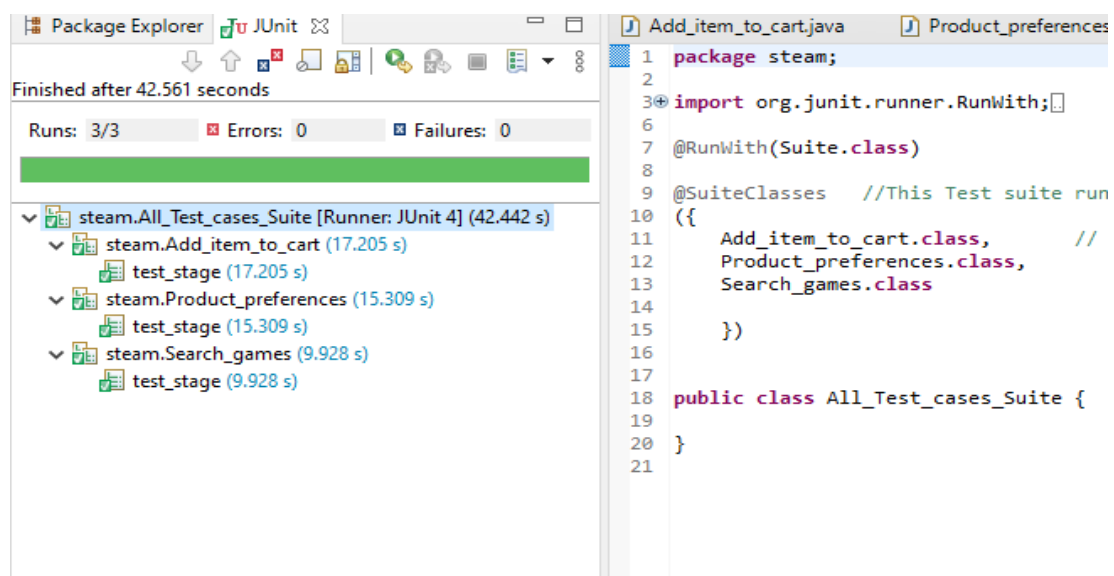


Figure 0-1 Screenshot of successful execution of test suite

## **DISCUSSION**

<b><i>USERSTORY</i></b>	<b><i>EXECUTED FILE NAME</i></b>
Search for games	Search_Games
Adding item to cart	Add_item_to_cart
Show product preferences	Product_preferences

- The userstory-1, “Search for games” is executed and tested by file named “*Search\_Games*” verifies its acceptance criteria in the following way:
  - The setup phase is used to open the browser and locate the chrome driver in the local storage.
  - The “*Login\_module*” is called, which automates the login process of the website where the username and password are entered in order to login to the website.
  - The search bar is clicked and the required item/game’s name is given.
  - The searched item appears on the screen.
- The userstory-2, “Adding item to cart” is executed and tested by file named “*Add\_item\_to\_cart*” verifies its acceptance criteria in the following way:
  - The setup phase is used to open the browser and locate the chrome driver in the local storage.
  - The “*Login\_module*” is called, which automates the login process of the website where the username and password are entered in order to login to the website.
  - The search bar is clicked and the required item/game’s name is given. The searched item appears on the screen.
  - The “Add to cart” button is clicked.
  - The item is added to the cart successfully.
- The userstory-2, “Show product preferences” is executed and tested by file named “*Product\_preferences*”.
  - The setup phase is used to open the browser and locate the chrome driver in the local storage.

- The “*Login\_module*” is called, which automates the login process of the website where the username and password are entered in order to login to the website.
- The “preferences” button in the profile settings is clicked.
- A list of preferences appears on the screen
- The user can add/edit the list of preferences to be viewed in the store in the website.