



DEPI Graduation Project

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Track: Software Testing

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Introduction

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01. Overview of the project

Project sections



Manual testing involves human testers executing test cases to identify defects, while automation testing uses specialized tools to automate test execution and increase efficiency



Manual Testing

In this section we are simulating real-world scenarios that end users might encounter across various domains, such as e-commerce, government services, and healthcare.



e-commerce platforms



government services



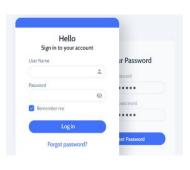
Healthcare environments



In this section we automate different scenarios that an end user would typically encounter on an e-commerce website



User registration



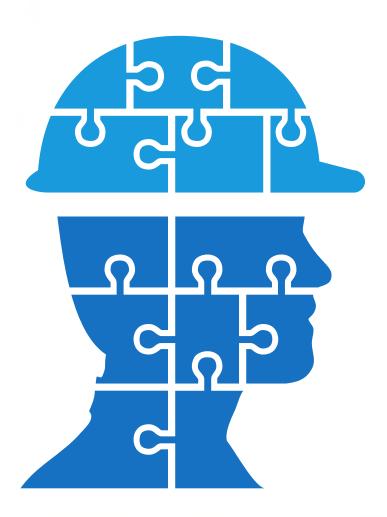
Login functionality



Landing page interactions



Wishlist management



The main goal of Manual testing is a quality assurance process that involves manually executing test cases to identify defects, usability issues, and ensure the software meets its requirements. It plays a crucial role in delivering a high-quality product.

Automation testing aims to increase efficiency and accuracy in software testing by executing test cases automatically. It enables faster feedback, reduces human error

•Tools used

•Manual: Excel.

•Automation: Selenium WebDriver, Java, intellij idea

•Frameworks: TestNG, Cucumber



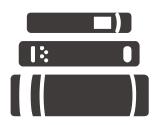


TestNG









Manual



User Story 1

As a customer, I want to filter products by category, so I can easily find items that match my interest.

User Story 2

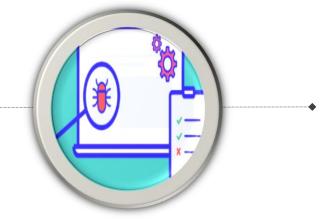
As a citizen, I want to apply for a new passport online, so I can avoid visiting the passport office in person

User Story 3

As a patient, I want to schedule an appointment with my doctor online so that I can choose a convenient time without calling the office







Scope

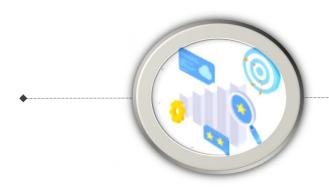
This user story focuses on implementing a product filtering feature on an e-commerce website. The primary goal is to allow users to easily find products that match their specific interests by filtering them based on predefined categories

Functional requirements

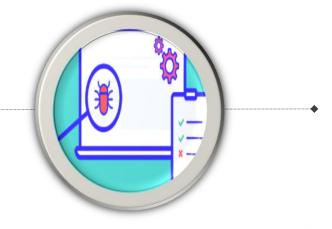
- 1- Display product categories
- 2- Select categories
- 3- Filter products
- 4- Clear filters
- 5- Update product count
- 6- Show selected filters
- 7- Responsive design

Non - functional requirements

- 1- Performance
- 2- Usability
- 3- Security







Scope

this user story focuses on enabling citizens to apply for new passports online, eliminating the need for inperson visits to passport offices

Functional requirements

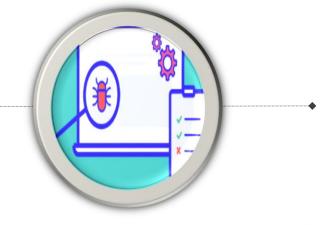
- 1- Accessibility
- 2- Data entry
- 3- Validation
- 4- Progress saving
- 5- Submission
- 6- Confirmation
- 7- Status tracking
- 8-Payment

Non - functional requirements

- 1- Performance
- 2- Usability
- 3- Security
- 4-Integration







Scope

this user story focuses on enabling patients to schedule appointments with their doctors online, providing more flexibility and convenience than traditional phone-based scheduling.

Functional requirements

- 1-Appointment availability
- 2- Selection
- 3- Confirmation
- 4- Access
- 5- Rescheduling/cancellation
- 6- Notifications

Non - functional requirements

- 1- Performance
- 2- Usability
- 3- Security
- 4-Integration

Automation

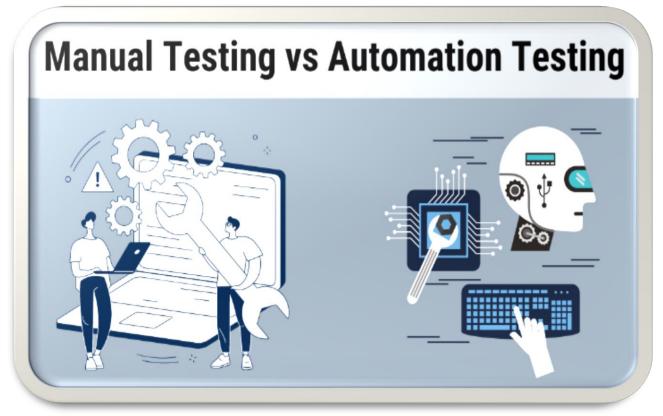
Register **Landing Page** TC1: Validate that "Hot Sellers" is displayed and each TC1: Validate an error message is displayed when the card contains a price in \$ user leaves the "Confirm Password" field empty TC2: Validate an error message is displayed when the TC2: Validate that each product card contains an "Add to Cart" button and is clickable password and confirm password do not match TC3: Validate that a guest user can add products to the TC3: Validate that after registration with valid data, the user is navigated to the "My Account" page cart Wishlist Login TC1: Validate that guest users cannot add products to TC1: Validate that the user can log in with a registered the wishlist email and password TC2: Validate that logged-in users can add products to the wishlist



03. Challenges and Solutions

Manual

Manual testing can be timeconsuming, prone to human error, and difficult to scale for large applications. It may also struggle to keep up with rapid development cycles.



Automation

Automating tests can be complex, especially for dynamic and complex applications. Maintaining test scripts as the application evolves can be timeconsuming, and achieving high test coverage can be challenging



04. Project Outcome

Project Outcome









The project aimed to implement a testing framework that incorporates both manual and automated testing methods to ensure comprehensive quality assurance for a software application and web.

Documentation: Detailed test cases and scenarios were documented, providing a valuable reference for future testing cycles.

Increased Efficiency: Automated tests significantly reduced testing time, allowing for faster iterations and quicker feedback on code changes.

Project Outcome

Faster Release Cycles

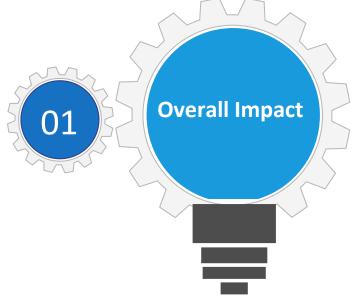
The efficiency gained from automation contributed to shorter release cycles, allowing for quicker delivery of features to users.



03

Improved Quality Assurance

The combination of manual and automated testing led to a more robust quality assurance process, resulting in a higher quality product



Enhanced Collaboration

The project fostered better collaboration between development and testing teams, promoting a culture of continuous improvement.

Acknowledgements

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