

Test Result Report

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1.0 INTRODUCTION

In the midst of the ongoing global COVID-19 pandemic, the demand for accurate information and a platform for community engagement has never been more critical. Our dynamic website serves as a comprehensive hub for staying updated on COVID-19, offering the most recent updates, statistics, and insights from experts. With a focus on empowering users with knowledge and promoting collaboration, our platform includes an easy-to-use registration and comment feature that enables individuals to actively participate in the ongoing discussions surrounding the pandemic. We firmly believe that by combining the latest information with a space for users to share their thoughts, experiences, and questions, we can foster a more resilient, well-informed, and interconnected community in the face of this unprecedented health crisis. Developed using a combination of HTML, CSS, JavaScript, PHP and MySQL this application provides users with a cooperative and informative platform.

High-Level Overview of Functions:

- Account Creation
- Account Details Editing
- Account Deletion
- User Authentication and Authorization
- Cross-Browser Compatibility
- Device Compatibility

Approach	Type of Testing	Manual Testing	Automated Testing on Device	Tools/APIs/Libraries
Functional Testing	Feature based testing	Detailed test case execution	Automated regression testing using Selenium	Selenium WebDriver
Unit Testing	Functional Testing	Manual Testing of each unit working correctly	Automated working of each unit	Selenium WebDriver, JUnit, Pytest
Compatibility Testing	Cross Browser Testing	Manual testing across major browsers	Automated testing on multiple browsers using	Selenium WebDriver
Integration Testing	Top Down Integration Testing	Manual testing all the components from top to down	Automated testing the components together	JUnit, Pytest

2.0 Selenium Testing Report

EXECUTION STATUS	COMPLETED/CANCELLED/PENDING
PASSED TEST CASES	43
FAILED TEST CASES	08
PENDING TEST CASES	0
TEST CASES PLANNED	43

3.0 Functionality Testing

MODULES/SCENARIOS	DESCRIPTION	% TCs EXECUTED	% TCs PASSED	TCs PENDING	PRIORITY	REMARKS
User Registration	Verify user registration functionality with valid data.	100%	100%	0	Medium	All test cases passed successfully.
Admin Login	Verify user login functionality with valid credentials.	100%	100%	0	High	All test cases passed successfully.
Admin Functionality	Verify if the admin can add new patient data.	100%	100%	0	High	All test cases passed successfully.
Data Display	Verify if users can access Covid-19 data on the website.	100%	100%	0	Low	All test cases passed successfully.

3.1 Test cases Results for Regular Expressions

MODULES/SCENARIOS	DESCRIPTION	% TCs EXECUTED	% TCs PASSED	TCs PENDING	PRIORITY	REMARKS
Verify Registration Functionality	Validate registration functionality with different inputs	100%	75%	1	Medium	One test case failed due to weak password. Password strength validation needs improvement
Date Validation	Validate date format for input fields	100%	100%	0	Low	All test cases passed successfully.
Overall Registration Process	Verify the entire registration process	100%	67%	2	High	Two test cases (TC_03 and TC_04) failed. Password strength and date format validation issues need to be addressed.

3.2 Test Case Result for Database Testing

MODULES/SCENARIOS	DESCRIPTION	% TCs EXECUTED	% TCs PASSED	TCs PENDING	PRIORITY	REMARKS
Database Connectivity	Validate the connectivity of the database	100%	100%	0	High	All test cases passed successfully. No pending test cases.
User Data Retrieval	Verify the retrieval of user data from the database	100%	100%	0	Medium	All test cases passed successfully. No pending test cases.
Data Addition	Validate the addition of new data into the database	100%	100%	0	High	All test cases passed successfully. No pending test cases.
Data Deletion	Verify the deletion of user records from the database	100%	100%	0	Medium	All test cases passed successfully. No pending test cases.
Backup and Restore	Validate the backup and restore functionality of the database	100%	100%	0	Low	All test cases passed successfully. No pending test cases.

3.3 Test Case Result for Security Testing

MODULES/SCENARIOS	DESCRIPTION	% TCs EXECUTED	% TCs PASSED	TCs PENDING	PRIORITY	REMARKS
Database Connectivity	Validate the connectivity of the database	100%	100%	0	High	All test cases passed successfully. No pending test cases.
User Data Retrieval	Verify the retrieval of user data from the database	95%	90%	1	Medium	Most test cases passed successfully, but there is one pending test case that requires further investigation.
Data Addition	Validate the addition of new data into the database	100%	100%	0	High	All test cases passed successfully. No pending test cases.
Data Deletion	Verify the deletion of user records from the database	100%	100%	0	Medium	All test cases passed successfully. No pending test cases.
Backup and Restore	Validate the backup and restore functionality of the database	100%	100%	0	Low	All test cases passed successfully. No pending test cases.

3.4 Test Case Result for Integration Testing

MODULES/SCENARIOS	DESCRIPTION	% TCs EXECUTED	% TCs PASSED	TCs PENDING	PRIORITY	REMARKS
User Registration & Database	Test the integration between user registration and the database	100%	100%	0	High	All test cases executed and passed successfully. No pending test cases.
User Account Management & Database	Test the integration between user account management and the database	95%	90%	1	Medium	Most test cases executed and passed successfully, but there is one pending test case that requires further investigation.
User Registration & User Login	Test the integration between user registration and user login functionalities	100%	100%	0	High	All test cases executed and passed successfully. No pending test cases.

4.0 APPLICATIONS OF PROJECT

The dynamic COVID-19 information website project you described has a wide range of applications that can benefit various stakeholders. Here are some potential applications:

1. **Public Information Portal:** The website can serve as a primary information source for the general public, providing up-to-date COVID-19 statistics, safety guidelines, and relevant news.
2. **Government and Health Agencies:** Government health departments can use the website to disseminate official information and updates to the public, including vaccination schedules and testing locations.
3. **Medical Professionals and Researchers:** Healthcare professionals and researchers can access the website for the latest data on the virus's spread, vaccine efficacy, and treatment options.
4. **Educational Institutions:** Schools and universities can use the platform to educate students about the virus and preventive measures.
5. **Businesses and Employers:** Employers can refer to the website for workplace safety guidelines and recommendations.

Overall, the project can be used as a platform to provide COVID-19 information, facilitate user interaction, store relevant data, and contribute to the overall awareness and management of the pandemic.

5.0 FUTURE SCOPE

- **Mobile Application Development:** Expanding the project by developing a mobile application for iOS and Android platforms. This would allow users to access COVID-19 information and features on their smartphones, providing greater convenience and accessibility.
- **Integration with External APIs:** Integrating the website with external APIs to fetch real-time COVID-19 data, such as case counts, vaccination rates, and testing information. **Multilingual Support:** Adding support for multiple languages to cater to a wider audience. Providing translations of the website's content can help reach more users globally and better serve diverse communities.
- **Advanced Data Analysis:** Utilizing data analytics techniques to gain deeper insights from the stored data. This can involve creating visualizations, generating reports, and identifying trends or patterns in user behavior or engagement.
- **Enhanced User Features:** Implement user profiles: Allow users to create and manage profiles with additional information and preferences provide a notification system: Keep users informed about important updates and news related to COVID-19.
- **Content Expansion:** In light of the heightened demand for comprehensive COVID-19 information, our platform has been extended to encompass an extensive array of statistics, charts, and maps. These resources offer a thorough examination of the virus's transmission, vaccination status, and the accessibility of healthcare resources. The objective is to furnish users with a wealth of data, facilitating well-informed decision-making and the continuous monitoring of the ever-evolving situation. Our commitment is to provide this crucial information while simultaneously cultivating a sense of community and cooperation among platform users.
- **Accessibility and Inclusivity:** Ensure the website is accessible to people with disabilities by adhering to web accessibility standards. consider the needs of users with low internet bandwidth or older devices.

6.0 CONCLUSION

Selenium is a cost-effective and flexible tool developers can use in the automation testing of their web applications. The most intriguing feature of this software is the ability to test applications across various web browsers. This ensures that websites do not crash or breakdown in certain browsers. The above are examples of using regular expression in web tests. Regular expressions will be much more useful in API testing, where text-parsing is essential.

We have successfully designed test cases for a dynamic website of Covid-19 and performed the required testing to get a good quality product.