WIS Testing Report



**Group Number:** C1.037  
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# Executive Summary

This report outlines our previous knowledge regarding testing a Web Information System (WIS) before engaging in this subject. We discuss our understanding of key testing areas, including functional, usability, performance, and security testing.

Before formal study, we had a foundational grasp of testing concepts based on academic coursework and project experience. We understood the importance of verifying system functionality, ensuring an intuitive user experience, and checking basic performance metrics. However, our knowledge was limited in advanced testing methodologies such as automated testing, stress testing, and penetration testing.

The report is structured into an introduction, a breakdown of our knowledge on different testing aspects, and a conclusion summarizing key takeaways and areas for improvement.

# Revision Table

|  |  |  |
| --- | --- | --- |
| **Revision Number** | **Date** | **Description** |
| 1.0 | 20/02/2025 | Initial Draft |
| 1.1 | 20/02/2025 | Final document review |

# Introduction

Testing a Web Information System (WIS) is a critical part of development, ensuring that the system functions as intended, is user-friendly, performs efficiently, and maintains security. Before formally studying this topic, our group had a basic understanding of WIS testing derived from personal projects and academic exposure.

Our previous knowledge primarily focused on functional aspects, such as verifying the correct behavior of links, buttons, and forms. We also understood the need for usability testing to ensure a smooth user experience. Additionally, we had some awareness of performance testing, mainly in terms of response times and page load speeds, as well as fundamental security concerns like data protection and common vulnerabilities.

However, our knowledge was somewhat limited in areas such as automated testing frameworks, comprehensive performance benchmarking, and advanced security measures. This report provides an overview of what we knew about WIS testing before studying the subject in-depth.

The document is structured as follows: First, we discuss our understanding of key testing concepts, including functional, usability, performance, and security testing. Finally, we present our conclusions, summarizing our strengths and areas for improvement in WIS testing.

# Contents

## Functional Testing

Functional testing ensures that the WIS operates correctly by verifying that all components work as expected. Our prior knowledge included:

* Checking if links, buttons, and forms function properly.
* Ensuring that data input and output behave correctly.
* Verifying user authentication and access control mechanisms.

## Usability Testing

Usability testing focuses on the user experience, ensuring that the system is intuitive and accessible. We understood:

* The importance of a clear and logical user interface.
* The necessity of easy navigation and accessibility.
* Identifying usability issues based on user feedback.

## Performance Testing

Performance testing evaluates how well the WIS handles different workloads. Our knowledge included:

* Checking response times under normal conditions.
* Identifying slow-loading pages.
* Testing the system under varying levels of traffic.

## Security Testing

Security is crucial in any WIS, and we had a basic awareness of key security aspects, such as:

* Ensuring user data is protected.
* Checking for common vulnerabilities like SQL injection and Cross-Site Scripting (XSS).
* Verifying authentication mechanisms.

# Conclusions

Our group has a foundational understanding of WIS testing, but we acknowledge the need for further training and practice.

By focusing on learning about more aspects, we can improve our capabilities in testing a WIS effectively.

# Bibliography

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