Information Visualization on Test Automation

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- Demo
Océ Technologies B.V. is a Netherlands-based company that develops, manufactures and sells printing and copying hardware and related software.
Company

- Océ Research & Development

Océ operates research centers in nine different countries worldwide, staffed by more than 1550 highly-skilled professionals.
Background

- Océ develops high-end professional printers. The hardware and software of the printers are extensively tested.
- Framework Automated Testing (FAT) is used for system automated testing.
Assignment

- The stakeholders must have the clear view of the result of the automated testing.
Approach

- Analysis
- Design
- Implementation
- Testing
Stakeholder analysis

- Analysis of the different stakeholders involved with this project.
Stakeholder analysis
The requirements were gained through interviews held with the stakeholders. The goal of the interview was to get a clear view on what kind of data each stake holder is interested in.
Prioritization of requirements

To prioritizing the requirements, MoSCoW method has been chosen. MoSCoW model describes the functionalities priority. MoSCoW is abbreviation of Must Have, Should Have, Could Have, and Wont Have.
Set up use case
Information architecture
Research

- Doing research about the possible technologies available for this project
Design User Interfaces

This user interfaces describe the interactions between the user and the website.
Implementation and testing

- Once there was a clear idea of the visualization of the website. The next phase is implementation the website in the real environment.

- The methodologies for testing are make Test plan document and a checklist after execute the testing.
Conclusion and Recommendation

- For some stakeholders the visualization of test results is very important, from that visualization, the stakeholders have a clear view of what’s going on in their test cases.

- The website uses new technologies, it would work perfectly if the stakeholder also used a newer system for the PC, like upgrade Windows 8 or upgrade a newer version of their web browsers for a better performance.
Evaluation

- I learned that the project management is very important.
- I learned how to interact with the professional people in the company.
- I learned how to compare the available technologies and how to choose the best suitable one.
- I have a better understanding about how design works and what could it does in IT world.
- I learned web programming languages.
Test Result Overview
A daily overview of all test results (includes all builds of the day). Also allows to navigate to more detailed information.

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Fail Reason Query
Search for failed test cases by name and/or failure reasons. This gives insight in where/where certain failures have occurred.

FAT Documentation
Look and search the complete FAT document. Includes API documentation for Keyword based testcase development.
The End