

Quality Attribute Scenarios

Văn Lang Admissions

# Revision Table

|  |  |  |  |
| --- | --- | --- | --- |
| Author | Date | Reason for changes | Version |
| Khoi Nguyen | 13/12/2016 | Initial the document | 1.0 |
| Khoi Nguyen , Hien Nguyen | 20/12/2016 | Update Quality Attribute Scenario | 1.1 |
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# INTRODUCTION

## Purpose

This document provides a complete description of quality attribute scenarios of the Web Văn Lang Admissions project.

This document provide for project team member:

* Used to support project team can understand the quality of the system.
* Used to support the design-oriented analysis and design system architecture and detail design.
* Used to support software testing to create acceptance test.

## Definitions, acronyms and abbreviations

This following table describes key terms and important acronyms in this project:

|  |  |  |
| --- | --- | --- |
| No. | Term | Definition |
| 1 | BSS | Base Steps Solution Team who develop this project |
| 2 | PM | Project Manager |
| 3 | UC | Usecase |
| 4 | SRS | Software Requirement Specification |
| 5 | UI | User Interface |

## Audience

|  |  |
| --- | --- |
| Intended Audience | Reading Suggestions |
| Project manager | Quality Attribute. |
| Architect and designer | Quality attributes to architect and design the system. |
| Tester | Quality attributes to develop acceptance test. |
| Customer | Quality Attribute. |

# Quality Attribute Scenarios

# Performance

|  |  |
| --- | --- |
| ID : SQA-P01 : When users use the system to view the necessary information, the system will respond quickly, display results in 2 seconds | |
| Source Of Stimulus | Users |
| Stimulus | Attempt to display data , access system service |
| Enviroment | Normal operations |
| Artifact | System |
| Response | User access to system |
| Response Measure | When ≤ 500 users access, system will show imformation in homepage in 2 seconds even when users use wifi or 3g with 7Mbps bandwidth. |

|  |  |
| --- | --- |
| ID : SQA-P02 : Education staffs can import point into system average 1000 points will import about 4 seconds | |
| Source Of Stimulus | Education staffs |
| Stimulus | Import point into system |
| Enviroment | Normal operations |
| Artifact | System |
| Response | Education staffs import point into system , number of record will stored in database successful |
| Response Measure | Average 4000-5000 records will import about 4 seconds |

# Availability

|  |  |
| --- | --- |
| ID : SQA-A01 : When Web server unresponsive, can re-operation quickly | |
| Source Of Stimulus | Admin |
| Stimulus | Crash of Web Server |
| Enviroment | Normal operations |
| Artifact | System’s processor |
| Response | System display server failure notification , user cannot connect Web page , admin will fix quickly |
| Response Measure | Admin will fix web server at 20 minutes , the server recovered quickly |

# Scalability

|  |  |
| --- | --- |
| ID : SQA-C01 : System can expand limit number of users | |
| Source Of Stimulus | Developer |
| Stimulus | Admin wish to expand limit number of users |
| Enviroment | Build time |
| Artifact | System |
| Response | Expand limit number of users successful and unit tested |
| Response Measure | Limit number of user is from 3000 users into 5000 users |

# Useability

|  |  |
| --- | --- |
| ID : SQA-U01 : System has friendly interface and easy to use | |
| Source Of Stimulus | Users |
| Stimulus | Use the system efficiently , Learn to use the system |
| Enviroment | System |
| Artifact | Runtime |
| Response | User uses system effectively , interface is familiar to user |
| Response Measure | Users can use system within 2 minute of experimentation |

# Portability

|  |  |
| --- | --- |
| ID : SQA-R01 : Users can use the system on mobile platform | |
| Source Of Stimulus | Users |
| Stimulus | Can use system in tablet , smartphone |
| Enviroment | System |
| Artifact | System services |
| Response | Deploy system in tablet , smartphone |
| Response Measure | Use ionic framework to deploy system in tablet , smartphone about 1 month. |

# Modifiability

|  |  |
| --- | --- |
| ID : SQA-M01 : The system can add/delete/modify other functions later | |
| Source Of Stimulus | Developer , system administrator |
| Stimulus | Admin want to add “Video page” |
| Enviroment | Build time |
| Artifact | System |
| Response | “Video page” to be associated with Homepage |
| Response Measure | Add “Video page” about 2 weeks |

# Security

|  |  |
| --- | --- |
| ID : SQA-S01 : System can authorize user’s informations | |
| Source Of Stimulus | System admin |
| Stimulus | Account authorization to access system services |
| Enviroment | System |
| Artifact | Resource of the system |
| Response | Authenticates user , allow access to data and/or services |
| Response Measure | When users login, system will show UI for each role in 2 seconds. |

|  |  |
| --- | --- |
| ID : SQA-S02 : System encode user’s password before add into database | |
| Source of Stimulus | Admin, Education staff, Editor |
| Stimulus | Create password or change. |
| Environment | System |
| Artifact | Database |
| Response | User’s password will be encoded before add into database. |
| Response Measure | Hash table will encode user’s password into 16 characters before add into database |

# APPENDIX A: REFERENCES

<http://sa.inceptum.eu/sites/sa.inceptum.eu/files/Content/Quality%20Attribute%20Generic%20Scenarios-2.pdf>