**Requirement plan**

Admission system

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# **Revision**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Version** | **Update date** | **Author** | **Content** |
| 1 | 0.1 | 18/11/2013 | Khang Huynh | Create Requirement plan document |
| 2 | 0.2 | 19/11/2013 | Khang Huynh | Update Template |
| 3 | 0.3 | 20/11/2013 | Khang Huynh | Update Requirement Schedule |
| 4 | 0.4 | 23/11/2013 | Khang Huynh | Update process, description, roles and reponsibility |
| 5 | 0.5 | 26/11/2013 | Khang Huynh | Update detail roles for Stage 1,2  Update requirement schedule. |
| 6 | 0.6 | 15/11/2013 | Khang Huynh | Combine stage 1 and stage 2 into one  + process, functional modeling, roles & responsibility |

Table 1: Revision history

# **Introduction**

The requirement plan will support to define the roles and responsibility of team members in requirement processes, procedures and give a detailed schedule to be collect, analyze for establishing the requirement document used by the Deadline team

# **Requirement process**



Figure 1: Requirement process

## 3.1 Functional modeling



Figure 2: Functional modeling

## 3.2 Process Description

|  |  |  |
| --- | --- | --- |
| **No** | **Activities** | **Description** |
| 1 | Planning | Planning the activities of the this stage. |
| 2 | Establish customer meetings | Establish the encounters between customer and the team are structured to make the most efficient use of valuable time spent with the customer. |
| 3 | Discover Architectural Drivers | Gathering as much information about what the stakeholders need and expect in the system. Gathering as much information as possible regarding the system architectural drivers to include high-level functional requirements, business constraints, technical constraints, and quality attributes. |
| 4 | Analyze the architectural drivers | Analyze the consolidated raw architecture drivers information gatheredto clarify and refine the architectural drivers |
| 5 | Document the Architectural Drivers | Document and uses templates designed to capture information about the system architectural drivers include high-level functional requirements, business constraints, technical constraints and quality attributes. |
| 6 | Review | After the architecture drivers specification is complete must review and formally accepted by the stakeholders. |
| 7 | Establish the scope of the system/product | Establish the scope, context, and size of the development effort. |

Table 2: Process description

## 3.3 Roles and Responsibility

|  |  |  |
| --- | --- | --- |
| **Role** | **Assign for** | **Stage 1 recommended responsibility** |
| Customer | Quang Nguyen | The customer is responsible for defining and approving all requirements, and all modification to requirements. |
| Managing engineer | Huy Ngo | - Assist the requirements engineer in planning the architecture drivers elicitation  - Make questions to gather requirement (focus on functional requirement).  - Analyzes and describes architectural drivers (entity, functional, non-functional)  - Put user stories into Product backlog document |
| Chief Architect | Phu Ta | - Make questions to gather requirement (focus on functional requirement).  - Analyzes and describes architectural drivers (entity, functional, non-functional)  - Assist the requirements engineering in capturing and documenting to collection of raw architecture drivers.  - Put user stories into Product backlog document |
| Chief scientist | Dao Khau | - Make question to gather requirement (focus on technical and quality attribute issues associated with eliciting the architectural drivers)  - Identifying early technical risks associated with the architectural drivers.  - Describes technical constraint..  - Analyzes and describes architectural drivers (entity, functional, non-functional)  - Put user stories into Product backlog document |
| Requirements Engineer | Khang Huynh | - Plan, coordinate, and gathering initial requirements  - Establish customer meetings  - Make questions to gather requirement (focus on scope project).  - Writing the operation requirement  - Analyzes and describes architectural drivers (entity, functional, non-functional, constraints)  - Responsible for writing the architecture drivers specification document  -- Writing the Product backlog document  - Synthesis and review requirement documents  - Communication with customer to validate requirements. |
| Quality process engineer | Huy Nguyen | - Ensure that the requirement process are being followed.  - Make questions to gather requirement (focus on business constraint and quality attribute).  - Analyzes and describes architectural drivers (entity, functional, non-functional)  - Assist Requirements Engineer review outline requirement documents  - Put user stories into Product backlog document |
| Support engineer | Chau Le | - Install, configure, and maintain the tools necessary to support activities  - Recording meetings minutes for any stakeholder meetings  - Make questions to gather requirement.  - Analyzes and describes architectural drivers (entity, functional, non-functional)  - Assign Requirements Engineer review contents in requirement documents.  - Put user stories into Product backlog document |
| Production engineers | All Team | - Assist the team in the elicitation, capture, review and documentation of architectural drivers engineers.  - Analysis requirement |

Table 3: Roles and responsibility

# **Requirement Schedule**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Activities** | **Start** | **End** | **Human Resource** | **Stage** |
| 1 | Discover Architectural Drivers.  + Functional  + Quality Attribute  + Constraints | 26/11/2013 | 26/12/2013 | All Team | High level |
| 2 | Create Operation Requirement Document. | 26/11/2013 | 26/12/2013 | Khang Huynh |
| 3 | Meeting with customer #1  - Elicit requirements high level and quality attribute  + Compose newsletter module  + Catalog module  + Question and Answer module  - Constraints: technical and business | 28/11/2013 | 28/11/2013 | All Team |
| 4 | Update Operation Requirement Document.  + Functional  + Quality Attribute  *<send document for customer review>* | 28/11/2013 | 29/11/2013 | All Team |
| 5 | Meeting with customer #2.  + Review entities and continues elicit high level functional and quality attributes | 3/12/2013 | 3/12/2013 | All Team |
| 6 | Update Operation Requirement Document  Create Architecture Drivers Specification  + Entities  + Use case diagram | 3/12/2013 | 5/12/2013 | All Team |
| 7 | Meeting with mentor #2 to review works done at requirement stages | 5/12/2013 | 5/12/2013 | All Team |
| 8 | Update Architectural Drivers Specification  + Use case diagram  + Use case description  + Quality Attribute scenarios  *<send document for customer review>* | 5/12/2013 | 10/12/2013 | All Team |
| 9 | Meeting with mentor #3 to review works done at requirement stages | 12/12/2013 | 12/12/2013 | All Team |
| 10 | Review with customer #3.  + Use case diagram  + Use case description  + Quality Attribute scenarios | 12/12/2013 | 12/12/2013 | All Team |
| 11 | Update Architectural Drivers Specification *<Requirement changes>*  + Entities  + Use case diagram & description | 12/12/2013 | 17/12/2013 | All Team |
| 12 | Review Architectural Drivers Specification with team members  *<send document for customer review>* | 14/12/2013 | 17/12/2013 | Khang Huynh |
| 13 | Meeting with mentor #4 to review works done at requirement stages | 19/12/2013 | 19/12/2013 | All Team |  |
| 14 | Meeting with customer #4  + Review entities, use case diagram and description only | **19/12/2013** | **19/12/2013** | All Team |
| 15 | Update Entities and use case diagram and description  *<sent for customer approved>* | 19/12/2013 | 19/12/2013 | All Team |
| 16 | Continues update and analyze  + Quality attributes scenarios  + Technical/business constraints | 19/12/2013 | 21/12/2013 | All Team |
| 17 | Review Architectural Drivers Specification with team members  *<send for customer review>* | 21/12/2013 | 21/12/2013 |  |
| 18 | Meeting with customer #5  + Review Quality attribute and constraints  + Define prioritization | 24/12/2013 | 24/12/2013 | All Team |
| 19 | Update whole architectural drivers specification document  *<sent for customer approved>* | 24/12/2013 | 24/12/2013 | All Team |
| 20 | Establish Project Scope.  Review customer, mentor & closed architecture drivers specification | 26/12/2013 | 26/12/2013 | All Team |  |
| 21 | Get detail requirements for Spring 1 | 20/1/2013 |  | All Team | Spring 1 |

Table 4: Requirement Schedule

# **Tools, Environments and Infrastructure**

Excel 2010 and Word 2010 will be used for developing requirement documents.

Visio 2010 will be used for developing use case diagram.

Gmail will be used for communicate with customer.

TortoiseSVN will be used for saved document.

# **Document Template**

Operational Requirement Document – Template.

Architecture Drivers Specification – Template.

Requirement Traceability Matrix – Template

Product Backlog Template - Template