

ARCHITECTURE PLAN

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**Version1.1**

**<QuangVuong>**

**<07/11/2019>**

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |
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1. **Introduction**
   1. **Purpose**

Architecture management plan define acts to be performed in architecting project BDS. It provides process to execute and approve architecture documents. The primary activities to be performed include:

* Define architectural driver
* Document software architecture and validate document
  1. **Intended Audiences**

|  |  |  |
| --- | --- | --- |
| **No.** | **Readers** | **Reason for reading** |
| 1 | Mentor, team | Review and guideline for improvement architecture plan. |
| 2 | Architecture Leader | Use this document to manage and update schedule in architecture phase. |
| 3 | Member orther | Read document to know architecture plan and follow it to work in architecture phase. |

Table 1. Intended Audiences

* 1. **Glossary and Acronym**

|  |  |
| --- | --- |
| **Term or Acronym** | **Definition** |
| Ver | Version |
| SRS | Software Requirement Specification |
| ADD | Architecture Driver Document |
| SAD | Software Architecture Driver |

Table 2. Glossary and Acronym

1. **Process**
   1. **Role and Responsibility**

|  |  |  |
| --- | --- | --- |
| **No** | **Role** | **Responsibility** |
| 1 | Requirement engineer | Coordinating the gathering and tracking of the architecture drivers  Gather feedback about requirement |
| 2 | Architecture leader | Plan for architecture phase  Coordinating, tracking, experiments used to refine the design.  Decompose and assign task for architecture team member. |
| 3 | Architecture team member | Execute task which were assign  Discuss about ECB architecture  Feedback about problem of architecture and artifacts |

Table 3. Roles and Responsibilities

* 1. **Process**

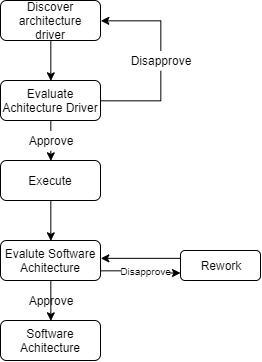


Figure 1. Architecture Process

1. **Architecture Process Description**

To describe more detail for each phase, we use ETVX model:



* 1. **Stage 1**

|  |  |
| --- | --- |
| Entry criteria | * Requirements are collected from customer clear and it’s were analysed |
| Task | * Analysis of the architectural drivers from the customer: In this project, research is an important task will help the requirement team and architecture team can gathering the functional requirements of system. |
| Validation |  |
| Exit criteria | * Architecture drivers are analyzed and specified |

Table 4: Discover Architecture Drivers

Role and responsibility in this stage:

|  |  |  |
| --- | --- | --- |
| **No.** | **Role** | **Responsibility** |
| 1 | Architecture Leader | * Discover architecture driver. |

Table 5: Role and Responsibility in Stage 1

* 1. **Stage 2**

|  |  |
| --- | --- |
| Entry criteria | * Architecture driver |
| Task | * Evaluate architecture drivers: The architecture leader phase must setup a meeting with member orther to review and evaluate the architecture * Approve architecture drivers: After review and evaluate the architecture driver. Team decision to approved by them to baseline this. If no, it will return to stage 1. If yes and go to step 3 |
| Validation | * Team discuss and make decision |
| Exit criteria | * Decision about ADD (Yes/No) |

Table 6: Evaluate Architecture Driver

Role and responsibility in this stage:

|  |  |  |
| --- | --- | --- |
| **No.** | **Role** | **Responsibility** |
| 1 | Architecture leader | * Plan meeting * Introduce architecture driver * Explain and collect feedback on architecture drives |
| 2 | Member orther | * Review and feedback on architecture driver |

* 1. **Stage 3**

|  |  |
| --- | --- |
| Entry criteria | * Architecture driver are baseline |
| Task | * All team design software architecture base on architecture driver document |
| Validation | * Architecture team review and consult together |
| Exit criteria | * Software Architecture Document versions |

Table 8: Execute

Role and responsibility in this stage:

|  |  |  |
| --- | --- | --- |
| **No.** | **Role** | **Responsibility** |
| 1 | All member | * Design software architecture |

Table 9: Role and responsibility in stage 3

* 1. **Stage 4**

|  |  |
| --- | --- |
| Entry criteria | * Software architecture document |
| Task | * Evaluate the software architecture document: A meeting will be setup with the participation of team to review and evaluate. If no(disapprove), it have to rework and turn back step 4. If yes(no problem) and go to step 5 |
| Validation | * Team review and feedback document SAD |
| Exit criteria | * Make decision for rework or approve document SAD |

Table 10: Evalute SAD

Role and responsibility in this stage:

|  |  |  |
| --- | --- | --- |
| **No.** | **Role** | **Responsibility** |
| 1 | Member orther | * Review and feedback on SAD |
| 2 | Architecture leader | * Plan meeting * Make decision for rework or approve document SAD |

Table 11: Role and responsibility in stage 4

* 1. **Stage 5**

|  |  |
| --- | --- |
| Entry criteria | * Feedback of reviewer for SAD |
| Task | * Architecture leader approve SAD |
| Validation | * Baseline SAD |
| Exit criteria | * Software architecture document are baseline * Update Software Architecture Document versions |

Table 12: Software architecture document

Role and responsibility in this stage:

|  |  |  |
| --- | --- | --- |
| **No.** | **Role** | **Responsibility** |
| 1 | Project Manager | * Baseline SAD |

Table 13: Role and responsibility in stage 5

1. **Tool**

* Microsoft Word
* Draw io
* Github

1. **Template Document**

|  |  |  |
| --- | --- | --- |
| **No** | **Template** | **Description** |
| 1 | SAD Document Template | Document descript Software Architecture Driver of system |
| 2 | ADD Document Template | Document descript Software Architecture of system |

**Table 14: Template Document reference**