

ARCHITECTURE PLAN

AND

E

TURE

TECT

HI

C

C

**Version1.1**

**<QuangVuong>**

**<07/11/2019>**

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 | Quang Vuong | 07/11/2019 |  |  |  |
| 1.1 | Quang Vuong | 09/11/2019 | Team | 09/11/2019 | Team review and update |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Table of Contents

[1. Introduction 4](#_Toc24053068)

[2. Process 5](#_Toc24053069)

[2.1. Role and Responsibility 5](#_Toc24053070)

[2.2. Process 6](#_Toc24053071)

[6](#_Toc24053072)

[3. Architecture Process Description 7](#_Toc24053073)

[7](#_Toc24053074)

[3.1. Stage 1 7](#_Toc24053075)

[3.2. Stage 2 7](#_Toc24053076)

[3.3. Stage 3 8](#_Toc24053077)

[3.4. Stage 4 8](#_Toc24053078)

[3.5. Stage 5 8](#_Toc24053079)

[4. Tool 9](#_Toc24053080)

[5. Template Document 9](#_Toc24053081)

# 

**List of Table**

[Table 1. Intended Audiences 4](#_Toc24053057)

[Table 4: Discover Architecture Drivers 6](#_Toc24053058)

[Table 5: Role and Responsibility in Stage 1 6](#_Toc24053059)

[Table 6: Evaluate Architecture Driver 6](#_Toc24053060)

[Table 8: Execute 7](#_Toc24053061)

[Table 9: Role and responsibility in stage 3 7](#_Toc24053062)

[Table 10: Evalute SAD 7](#_Toc24053063)

[Table 11: Role and responsibility in stage 4 7](#_Toc24053064)

[Table 12: Software architecture document 8](#_Toc24053065)

[Table 13: Role and responsibility in stage 5 8](#_Toc24053066)

[Table 14: Template Document reference 8](#_Toc24053067)

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**

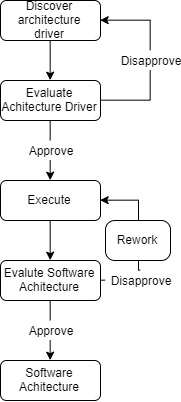


Figure 1. Architecture Process

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 will return to stage 3. 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**