

**DEVELOPMENT PROCESS**

**Version 1.1**

**Đạt Huỳnh**

**21/11/2019**

**VERSION HISTORY**

Provide information on how the development and distribution of the Project Implementation Process Template was controlled and tracked. Use the table below to provide the version number, the author implementing the version, the date of the version, the name of the person approving the version, the date that particular version was approved, and a brief description of the reason for creating the revised version.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 | Đạt Huỳnh | 21/11/2019 |  |  | Release Development Process |
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|  |  |  |  |  |  |
|  |  |  |  |  |  |

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# **Introduction**

## **Purpose**

Development process is a methodology that helps to develop product as well as controlling a project from start to finish. Development process consists of five stages: requirement, architecture, pre-testing, details design, execute test and deployment.

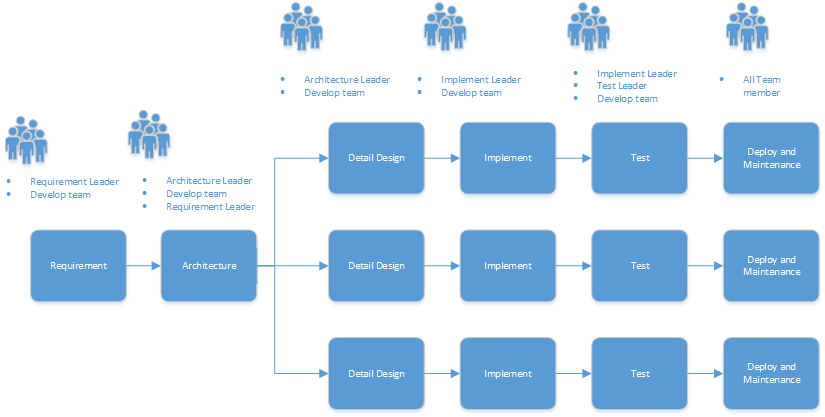
## **Intended audience**

|  |  |  |
| --- | --- | --- |
| **Role** | **Name** | **Responsibility** |
| Project Manager | Đạt Huỳnh | Planning and Monitoring and Control Process |
| Requirement Leader | Như Phương | Collect, Analyze and Controlling in Requirement Phase |
| Architecture and Design Leader | Quốc Nhân | Analyze System, Controlling Architecture Phase |
| Implementation Leader | Quang Vương | Code and Deploy product to customer |
| Test Leader | Anh Minh | Planning, Develop Test Case and Execute Test. |
| Develop Team | Đạt Huỳnh, Quốc Nhân, Quang Vương, Anh Minh, Như Phương | Project development |
| Customer |  | Give requirement, baseline requirement, contact develop team. |

**Table 1. Intended audience**

# **Development Process**

## 

**Figure 1. Development Process**

## **Requirement**

* + 1. **Purpose**

Requirement process is a methodology that helps to develop requirement as well as management requirement from start to finish. Requirement process consists of four stages: Elicitation, Analyze, Specification and Validation.

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

* High level business requirement, business goals are defined

**Exit:**

* All requirement documents are completed
  + 1. **Role and Activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Activities** | **Role** | **Output** |
| * High Level Business Requirement * Business Goals | * Elicitation * Analyze * Specification * Validation | * Project Manager * Requirement Leader * Develop Team * Customer | * Vision and Scope * Concept of Operation * Use Case * SRS |

**Table 2. Requirement Role and Activities**

### **Tools and Technique**

**Tools:**

* Microsoft Word
* Microsoft Excel

**Technique:**

* 4W1H
* Brainstorm
* Questionnaire
  + 1. **Templates**
* RE\_VisionandScope\_Template
* RE\_ConceptofOperation.Template
* RE\_SoftwareRequirementSpecification.Template

## **Architecture**

* + 1. **Purpose**

Architecture process is methodology help define architecture driver specification**.**

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Software Requirement Specification baselined.

**Exit:**

* Software architecture driver specification completed.
  + 1. **Role and Activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Activities** | **Role** | **Output** |
| * Architecture Plan * SRS | * Identify Functional Requirement & Quality Attributes * Define Framework & Select WordPress * Distill Architecture Driver Specification * Describe Functional Requirement & Quality Attributes * Review & Accept * Update Plan * Describe the Architecture Design * Documenting the Design in term of: Perspectives System Context * Review Architecture Design * Refine the Architecture | * Architecture Leader * Develop Team | * Architecture Plan Updated * Architect Driver Specification * Software Architecture Design |

**Table 3. Architecture Role and Activities**

### **Tools and Technique**

**Tools:**

* Microsoft Word

### **Templates**

* AR\_ArchitecturePlan\_Template
* AR\_ArchitectDriverSpecification\_Template

## **Details-Design**

### **Purpose**

Details Design process is methodology help define user interface class diagram, sequence diagram of system.

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Architecture Driver Specification baselined

**Exit:**

* All method of system defined
  + 1. **Role and Activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Activities** | **Role** | **Output** |
| * Concept of Operation * User Requirement Document * Software Requirement Specification | * Describe User Interface * Describe Database Diagram * Describe Sequence Diagram | * Architecture Leader * Develop Team | * User Interface * Software Design Specification |

**Table 5. Details-Design Role and Activities**

### **Tools and Technique**

* Microsoft Word
* Figma
* Draw io

### **Templates**

* DD\_SoftwareDesignSpecification\_Ver.

## **Implementation**

### **Purpose**

Implementation process is methodology help develop plan, coding, fix bug and delivery product to customer

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Software Requirement Specification and Details Design Specification baseline.

**Exit:**

* Product of project all function completed.
  + 1. **Role and Activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Activities** | **Role** | **Output** |
| * Project Plan * SRS * Details Design Specification * Requirement Traceability Metrix * Function List | * Prepare * Code * Test * Update Requirement Traceability Metrix * Release | * Project Manager * Implementation Leader * Develop Team | * Implementation Plan * Source Code * Database * Requirement Traceability Metrix Updated * Product * User Guide * Guideline |

**Table 6. Implementation Role and Activities**

### **Tools and Technique**

* Microsoft Word
* Microsoft Excel
* Visual Studio Code

### **Templates**

* IM\_ImplementationPlan\_Template
* IM\_ImplementationProcess\_Template
* IM\_UserGuide\_Template
* IM\_GuideLine\_Template

## **Execute-Test**

### **Purpose**

Execute Test process is methodology help test product and develop report, managed quality of product.

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

* Pre-test phase completed and programmer release system build.

**Exit:**

* System build tested and report.
  + 1. **Role and Activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Activities** | **Role** | **Output** |
| * Integration Test Case * System Test Case * Acceptance Test Case | * Implementation and Execution * Evaluation Exit Criteria and Report ting * Closing Activities | * Test Leader * Develop Team | * Test Report * Test Metrix * Test Summary * Project Closure Report |

**Table 7. Execute-Test Role and Activities**

### **Tools**

* Microsoft Word
* Microsoft Excel

### **Templates**

* TE\_TestReport\_Template
* TE\_TestMetrix\_Template
* TE\_TestSummary\_Template

## **Deployment**

### **Purpose**

Deployment process is methodology help delivery deploy product and all documentation to customer

* + 1. **Entry & Exit Conditions/Criteria’s**

**Entry:**

Product completed and mapping customer requirement.

**Exit:**

Customer trained and can use product

* + 1. **Role and Activities**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Activities** | **Role** | **Output** |
| * Real Estate App * Installation Guide * User Guide | * Deployment * Training | * Project Manager * Implementation Leader | * Product Released * Project Closure Report * Project Reflection |

**Table 8.Deployment Role and Activities**

### **Tools and Technique**

* Microsoft Word
* Microsoft Excel

### **Templates**

* PM\_ProjectReflection\_Template

# **References**