

Implementation Process

Văn Lang Admissions

# Revision Table

|  |  |  |  |
| --- | --- | --- | --- |
| Author | Date | Reason for changes | Version |
| Khoi Nguyen | 24/10/2016 | Initial the document | 1.0 |
| Hien Nguyen | 8/11/2016 | Edit metric number 2 | 1.1 |

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# INTRODUCTION

## Purpose

* Create a vision for implementing the strategic plan.
* Let everyone know what has been accomplished and why it is important. Establish a clear image of what the strategic plan is intended to accomplish.
* Let an organization’s management know about the progress of implementation makes them a part of the process, and, should problems arise, the management will be better able to address concerns or potential changes.

## Roles and responsibilities

|  |  |
| --- | --- |
| Roles | Responsibilities |
| Code leader | Initiating and monitoring the project  Ensuring impediments are identified and resolved quickly  Formulating actions for the project plan  Assigning tasks to team members  Developing a training scheduling |
| Coder | Code function  Solve conflicts when update from Github |

## Templates and guidances

* [Coding guidance](file:///D:\Workspace\Năm%20cuối\SQPM\K19T2-Team4-Team%20Assignment1\K19T2-Team4-TeamAssignment1-CodeGuidance.docx)
* [Process template](file:///D:\Workspace\Năm%20cuối\SQPM\K19T2-Team4-Team%20Assignment1\K19T2-Team4-TeamAssignment1-ProcessTemplate.xlsx)

# Process description

## Process flow



## Process detail

* + 1. Input
* Architect Driver Description (Architecture Drivers, Quality Attributes, Constraints …)
* Architect Design Document (System Context, 3 perspectives …)
* User Requirement Document (Function list, Use-case, Use-Case checklist…)
* Software Requirement Specification (Functional requirement – Non-Functional requirement, business constraints – technical constraints, Prioritization of functions …)
* External system design (Prototype)
* Database Design
  + 1. Activities

|  |  |  |  |
| --- | --- | --- | --- |
| Action | Description | Input | Output |
| Create project on repository | Code leader create a project on Github and add all members to project that is place for all members update source code. |  | New project on repository |
| Assign task | Code leader assign tasks for project | Tasks  Members | Assigned tasks |
| Train code | Code leader train code for all members to know how to code software. | Training plan  Tools | Training result report |
| Update source on repository | All members update source code from Github. |  | Updated source |
| Code | Coders implement programming. | Assigned tasks | Source code |
| Support coder | Code leader supports member if have problem about code. | Problem | Solution |
| Update source on repository again | If there are not any problems, member updates code to Github. |  | Updated source |
| Solve conflict | Solve conflict if there is conflict occur. | Conflicts | Solved conflicts |
| Commit code to repository | Coders commit source code to Github. | New source code | New source code on repository |
| Verify code | Code leader verifies code from member commit to Github. | New source code | Report |

* + 1. Output
* Source code of each module.
* Implement process report.

# Measurements

## Goal – Question - Metric

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Goals | Questions | Metrics |
| *1* | **Training code for member: Training points** | Do you members ready for coding functions? |  |
| *2* | **Improve the Productivity of individual**  **( P )** | How to track the coder productivity? |  |
| *3* | **Improve project performance: Functions requirement rate**  **( FR )** | Number of functions completed meet requirements or not? | Functions Requirement Completed (FRC)  Total of Functions Requirement (TFR)  FR = (FRC/TFR) \*100% |

## Metric definition

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Name of Metric | Formula | Goals | Collect procedures | Analyze procedures | Frequency |
| *1* | **Training points** |  | Training code for member | After training, each member will take a test by code leader write. | Result:  ***TP < 70***: Member is **False.**  ***TP = 70 or TP>70:*** Member is **Pass.** | Collect: Weekly  Analysis: Weekly  Report: Weekly |
| *2* | **Productivity of individual**  **(P)coder** | FP: Function point  Effort: Hour | Track the Productivity of coder | Collect data from *Function point* & *Effort Log* | Result:  About < **0.2**: Productivity is **Low.**  About **0.2**<= P<= **0.5**: Productivity is **Medium.**  About >**0.5**: Productivity is **High.** | Collect: Daily  Analysis: Weekly  Report: Weekly |
| *3* | **Functions requirement rate**  **(FR)** | Functions Requirement Completed (FRC)  Total of Functions Requirement (TFR)  FR = (FRC/TFR) \*100% | Improve project performance | Collect data from *Requirement document & Number of functions completed* | Result:  ***<50%***: Low, need to promote work  ***50%=>100%***  have completed half the work, **continue** implement product. | Collect: Daily  Analysis: Weekly  Report: Weekly |