

Architectural Drivers Specification

**Version1.0**

**<Quang Vuong>**

**<25/11/2019>**

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 | Quang Vuong | 25/11/2019 |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Table of Contents

[1. Introduction 3](#_Toc25614204)

[3. Architectural Drivers Overview 4](#_Toc25614205)

[4. Functional Requirements 4](#_Toc25614206)

[5. Quality Attribute Scenarios 4](#_Toc25614207)

[6. Contrainst 5](#_Toc25614208)

# 

# Introduction

* 1. **Purpose**

This document will be used to refine the architectural drivers for the project. This document will act as the main repository of requirements for the project.

The intended audience for this document is the Hello World team and BDS project.

* 1. **Definitions, Acronyms and Abbreviations**

1. **Project Overview**

BDS project will delivery a software used to manage real estate company. The software running on this 2 platforms is ios, android and web adminnistrator, this software use the same database to save and query data.

# 

# Architectural Drivers Overview

The architectural drivers presented in this document include:

* **Functional Requirements:** These requirements are presented in the form of specifications and use cases. These are a refinement of the requirements documented in the requirements specification document.
* **Quality Attribute Requirements:** These requirements are presented in the form of quality attribute scenarios. These scenarios are based on the quality attributes documented in the requirements specification document.
* **Business Constraints:** These are the business constraints in the requirements specification document.
* **Technical Constraints:** These are the technical constraints in therequirements specification document.

These architectural drivers will influence the architectural design and implementation of the project. Additionally, they will impact the schedule and quality of the project. As a whole these architectural drivers define the scope of the project.

# Functional Requirements

# Quality Attribute Scenarios

|  |  |  |  |
| --- | --- | --- | --- |
| **Title of scenario:** Users use the app to easier | | **ID:** QAS1 | **Version:** 1 |
| **Last Changed:** 27/11/2019 |
| **Quality attribute:** Usability | | **Characterization ID:** QA1 | |
| **Describe stakeholder role proposing the description:** User, customer, team develope | | | |
| Source(s) of the stimulus | Internal to the system | | |
| Stimulus | Need for the app to allow user easy to use the app easier (feel comfortable) | | |
| Relevant environmental conditions | Design time, run time | | |
| Architectural elements | Views | | |
| System response | The architectural designer design interface visually arrange options, text visual elements, view is evident to users easily observe and manipulate | | |
| Response measure(s) | The interface will be as few words as possible, the font is clear, simple colors, the layout is easy to see, the user manipulates less | | |
| Associated risks | N/A | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Title of scenario:** Users use the app faster | | **ID:** QAS1 | **Version:** 1 |
| **Last Changed:** 27/11/2019 |
| **Quality attribute:** Performance | | **Characterization ID:** QA1 | |
| **Describe stakeholder role proposing the description:** User, customer, team develope | | | |
| Source(s) of the stimulus | Internal to the system | | |
| Stimulus | Need for the app to allow users use and access data faster | | |
| Relevant environmental conditions | Run time | | |
| Architectural elements | Model, controller | | |
| System response | The application is designed with strong database, quick access, optimized source code | | |
| Response measure(s) | Users manipulate and retrieve data as quickly as possible. turn pages under 3 seconds, see graphs and compare data under 5 minutes | | |
| Associated risks | N/A | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Title of scenario:** Hệ thống thực hiện đúng với yêu cầu người dùng | | **ID:** QA03 | **Version:** 1 |
| **Last Changed:** 11/28/2019 |
| **Quality attribute:** Testability | | **Characterization ID:** QA03 | |
| **Describe stakeholder role proposing the description:** Users, customer & tester | | | |
| Source(s) of the stimulus | Users, customer & system verifier | | |
| Stimulus | Analysis, architecture, design, code, system delivered | | |
| Relevant environmental conditions | At design time, at development time, at deployment time, at test time | | |
| Architectural elements | System | | |
| System response | Hệ thống sẽ hoạt đúng với architecture, design, code, system delivered & function. | | |
| Response measure(s) | Báo cáo tỷ lệ thực thi 95% trở lên khi chạy test, dữ liệu trả ra đúng với architecture, design, code, system delivered & function. | | |
| Associated risks | Trong quá trình bàn giao sản phẩm user & customer sẽ thông báo cho nhóm khi lỗi xảy ra và thời gian sửa lỗi tùy thuộc vào chức năng hoặc phát triển chức năng. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Title of scenario:** Người dùng có thể sử dụng ứng dụng trên hai nền tảng | | **ID:** QA04 | **Version:** 1 |
| **Last Changed:** 11/28/2019 |
| **Quality attribute:** Portability | | **Characterization ID:** QA04 | |
| **Describe stakeholder role proposing the description:** User & Customer | | | |
| Source(s) of the stimulus | User & Customer | | |
| Stimulus | Cho phép người sử dụng xài trên hai nền tảng IOS & Android | | |
| Relevant environmental conditions | Điện thoại công nghệ cao và có mạng. | | |
| Architectural elements | System | | |
| System response | Sử dụng ngôn ngữ react native để lập trình trên hai nền tảng IOS & Android | | |
| Response measure(s) | Dữ liệu được đồng bộ trên hai nền tảng, ngôn ngữ được sử dụng trên hai nền tảng | | |
| Associated risks | Hệ thống sẽ không hoạt động khi không có mạng | | |

# Contrainst

* 1. **Technical contraints**

|  |  |
| --- | --- |
| **Consideration** | **Technical Constraint** |
| Platform | Use for 3 platform, ios vs android for mobile app, web application for admin. |

* 1. **Business contraints**

|  |  |
| --- | --- |
| **Consideration** | **Business contrainst** |
| **BR1** | When employees leave, the account will be hidden. |
| **BR2** | Staff only view and register applications |
| **BR3** | Only the administrator can update the information |
| **BR4** | Only director can approve employee applications |
| **BR5** | Unapproved applications will be canceled and not saved in history |
| **BR6** | Admin to update information continuously or when there is information from leaders and departments |
| **BR7** | Admin cannot use App Mobile to import files, etc. |