

Software Requirement Specification

**Version1.1**

**Nhan Pham**

**18/11/2019**

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 | Quốc Nhân | 04/11/2019 |  |  | Create Document SRS version 1.0 |
| 1.1 | Quốc Nhân | 18/11/2019 |  |  | Update Document SRS version 1.1 |
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# Introduction

## Purpose

The real estate application is created by the 'Hello World' group and the file is created to determine the role, flow of user, quality attributes, functions, and data dictionary.

## ****Intended Audience and Reading Suggestions****

* Director
* Department head
* Deputy department
* Employees
* Administrator

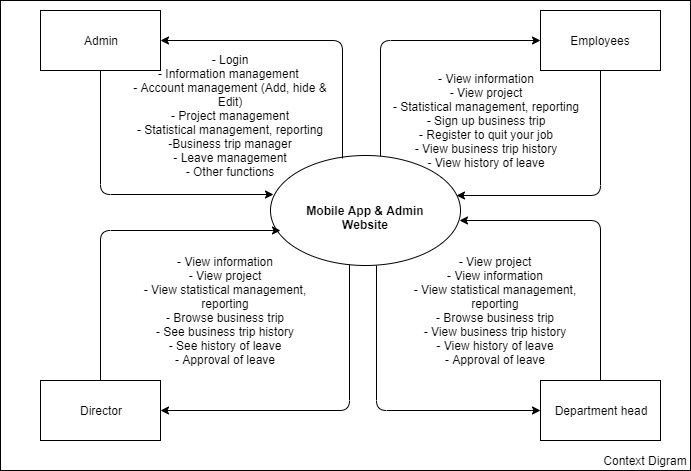
## References



# Introduction

## Function Perspective

* Login
* Information management
* Account management
* Project management
* Statistical management, reporting
* Business trip manager
* Leave management
* Other functions



## ****User Groups and Characteristics****

|  |  |  |
| --- | --- | --- |
| **#** | **User Groups** | **Descriptions** |
| 1 | Director | - View information  - View project  - View statistical management, reporting  - Browse business trip  - See business trip history  - See history of leave  - Approval of leave |
| 2 | Department head | - View information  - View project  - View statistical management, reporting  - Browse business trip  - See business trip history  - See history of leave  - Approval of leave |
| 3 | Deputy department | - View information  - View project  - View statistical management, reporting  - Browse business trip  - See business trip history  - See history of leave  - Approval of leave |
| 4 | Administrator | - Login  - Information management  - Account management (Add, hide & Edit)  - Project management  - Statistical management, reporting  -Business trip manager  - Leave management  - Other functions |
| 5 | Employees | - View information  - View project  - Statistical management, reporting  - Sign up business trip  - Register to quit your job  - View business trip history  - View history of leave |

## Operating Environment

* Internet request system.
* Mobile app only supported on Android and IOS operating systems
* All data saved at real estate company

## ****Design and Implementation Constraints****

Customer:

* Easy to interact
* Optional color
* Implementation on the App Android & IOS

## Assumptions and Dependencies

* Customers provide ANDROID and IOS accounts

# Prototypes

## Web App

<https://www.figma.com/proto/GnAJTV76aVDdOMG0KjL2Tl/App?node-id=1%3A2&scaling=contain>

## **Mobile App**

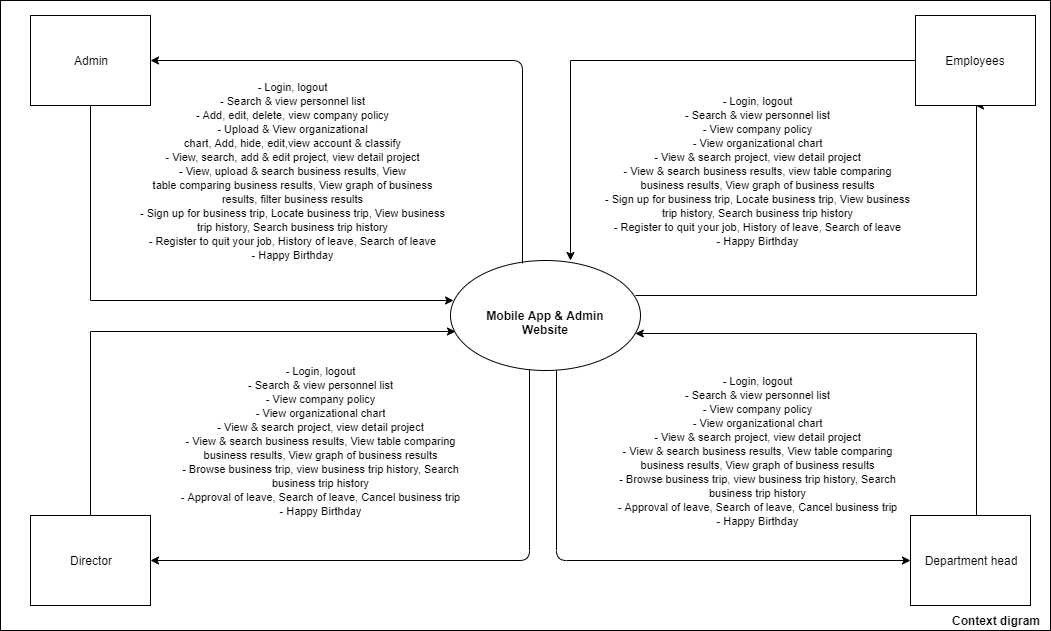
<https://www.figma.com/proto/TJRUytO4xBTnot2a7ND1IM/Web?node-id=2%3A138&scaling=min-zoom>

# Use cases



# System Features

## Feature Perspective

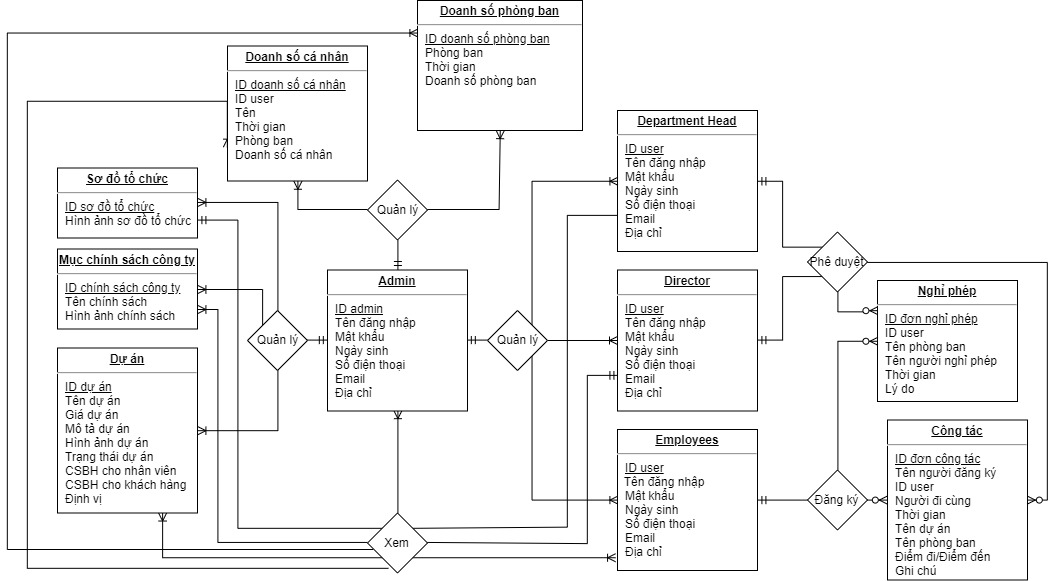


## ****User Groups and Characteristics****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **FEATURES** | **DESCRIPTION** | **CLASSIFY** | **Priority** |
| **Login** | | | | |
| FR.01 | Login/ logout | Users are provided accounts from the admin (Mobile app & web app) | Employees, department head, director and administrator | High |
| FR.02 | Logout/ login |
| **Information management** | | | | |
| FR.03 | Search personnel list | Users can search for personnel | Employees, department head, director and administrator | Medium |
| FR.04 | View personnel list | View image on app |
| FR.05 | Upload organizational chart | Admin upload & add organizational chart | Administrator |
| FR.06 | View organizational chart | View image on app | Employees, department head, director and administrator |
| FR.07 | Add company policy | Admin add, edit & delete company policy | Administrator |
| FR.08 | Edit company policy |
| FR.09 | Delete company policy |
| FR.10 | View company policy | View image on app | Employees, department head, director and administrator |
| **Account management** | | | | |
| FR.11 | View account information |  | Administrator | Medium |
| FR.12 | Add account | High |
| FR.13 | Hide account |
| FR.14 | Edit account |
| FR.15 | Classify |
| **Real estate project management** | | | | |
| FR.16 | View real estate listings |  | Employees, department head, director and administrator | High |
| FR.17 | Search real estate listings | Medium |
| FR.18 | View detail project | High |
| FR.19 | Add real estate listings |
| FR.20 | Edit real estate listings |  | Administrator | Medium |
| **Statistical management, reporting** | | | | |
| FR.21 | View business results | After the admin receives statistical information, reports from the company, the admin will display on the app | Employees, department head, director and administrator | High |
| FR.22 | Upload business results | After the admin receives statistical information, reports from the company, the admin will upload on the app | Administrator | High |
| FR.23 | Filter business results |  | Employees, department head, director and administrator | High |
| FR.24 | View table comparing business results | High |
| FR.25 | View graph of business results | High |
| **Business trip manager** | | | | |
| FR.26 | Sign up for business trip | Employees, department head, director and administrator will register the business trip | Employees, department head, director and administrator | High |
| FR.27 | Browse business trip | Director & department head will confirm | Director, departments head | High |
| FR.28 | Cancel business trip | Director & Head of Department will refuse | Director, departments head | High |
| FR.29 | Locate business trip | After completing the business trip | Employees, department head, director and administrator | High |
| FR.30 | View business trip history | Entire company can review history | Employees, department head, director and administrator | High |
| FR.31 | Search business trip history |  | Employees, department head, director and administrator | High |
| **Leave management** | | | | |
| FR.32 | Register to quit your job | Employees, department head, director and administrator will register the day off | Employees, department head, director and administrator | Medium |
| FR.33 | History of leave | Entire company can review history | Employees, department head, director and administrator | Medium |
| FR.34 | Approval of leave | Director & department head will review and approve the leave | Director, departments head | Medium |
| FR.35 | Search of leave |  | Employees, department head, director and administrator | Medium |
| **Other functions** | | | | |
| FR.36 | Happy Birthday | The app will display a happy birthday notification for everyone (on staff's birthday). | System (popup) | Low |

# Introduction

## Data Logical Model



## ****Data Dictionary****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Entity** | **Attribute Name** | **Attribute Type** | **Required (Y/N)** |
| 1 | Admin | Tên đăng nhập | String | Y |
| Mật khẩu | String | Y |
| Ngày sinh | Number | Y |
| Số điện thoại | Number | Y |
| Email | String | Y |
| Địa chỉ | String | Y |
| 2 | Director | Tên đăng nhập | String | Y |
| Mật khẩu | String | Y |
| Ngày sinh | Number | Y |
| Số điện thoại | Number | Y |
| Email | String | Y |
| Địa chỉ | String | Y |
| 3 | Department head | Tên đăng nhập | String | Y |
| Mật khẩu | String | Y |
| Ngày sinh | Number | Y |
| Số điện thoại | Number | Y |
| Email | String | Y |
| Địa chỉ | String | Y |
| 4 | Employees | Tên đăng nhập | String | Y |
| Mật khẩu | String | Y |
| Ngày sinh | Number | Y |
| Số điện thoại | Number | Y |
| Email | String | Y |
| Địa chỉ | String | Y |
| 5 | Nghỉ phép | Tên phòng ban | String | Y |
| Tên nghỉ phép | String |  |
| Thời gian | Number | Y |
| Lý do | String | Y |
| 6 | Công tác | Tên người đăng ký | String | Y |
| Người đi cùng | String | Y |
| Thời gian | Number | Y |
| Tên dự án | String | Y |
| Tên phòng ban | String | Y |
| Điểm đi/Điểm đến | String | Y |
| Ghi chú | String | Y |
| 7 | Dự án | Tên dự án | String | Y |
| Giá dự án | Image | Y |
| Mô tả dự án | Image | Y |
| Hình ảnh dự án | Image | Y |
| Trạng thái dự án | Image | Y |
| CSBH cho nhân viên | Image | Y |
| CSBH cho khách hàng | Image | Y |
| Định vị |  | Y |
| 8 | Mục chính sách công ty | Tên chính sách | String | Y |
| Hình ảnh chính sách | Image | Y |
| 9 | Sơ đồ tổ chức | Hình ảnh sơ đồ tổ chức | Image | Y |
| 10 | Doanh số các nhân | Tên | String | Y |
| Thời gian | Number | Y |
| Phòng ban | Image | Y |
| Doanh số cá nhân | Number | Y |
| 11 | Doanh số phòng ban | Phòng ban | String | Y |
| Thời gian | Number | Y |
| Doanh số phòng ban | Number | Y |

# Quality attributes.

* Usability
* Performance
* Testability
* Portability

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **ID** | **Quality Attributes** | **Priority** |
| **Usability** | | | |
| 1 | QA1 | Users use the app to easier | High |
| **Performance** | | | |
| 2 | QA2 | Users use the app faster | High |
| **Testability** | | | |
| 3 | QA3 | The system complies with user requests | High |
| **Portability** | | | |
| 4 | QA4 | Users can use the application on two platforms | High |