

Software Requirements Specification

**Version1.0**

**Anh Minh**

**12/11/2019**

**VERSION HISTORY**

|  |  |  |  |  |  |
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|  |  |  |  |  |  |

Nội dung

[**I.** **USE CASE DIAGRAM** 2](#_Toc24586192)

[**1.** **Use Case Diagram General** 2](#_Toc24586193)

[**2.** **Use Case Diagram Leader** 3](#_Toc24586194)

[**3.** **Use Case Diagram Department Head** 4](#_Toc24586195)

[**4.** **Use Case Diagram Admin** 4](#_Toc24586196)

[**5.** **Use Case Diagram Employees** 4](#_Toc24586197)

[**II.** **ENTITY TITLE** 4](#_Toc24586198)

[**III.** **USE CASE LIST** 4](#_Toc24586199)

[**IV.** **USE CASE DESCRIPTION** 5](#_Toc24586200)

[**1.** **Login** 5](#_Toc24586201)

[**2.** **Logout** 6](#_Toc24586202)

[**3.** **Display account information** 7](#_Toc24586203)

[**4.** **Search for personnel** 7](#_Toc24586204)

[**5.** **Display personnel list** 8](#_Toc24586205)

[**6.** **Show company chart** 8](#_Toc24586206)

[**7.** **Display company policies** 9](#_Toc24586207)

[**8.** **More account** 10](#_Toc24586208)

[**9.** **Delete the account** 10](#_Toc24586209)

[**10.** **Edit account** 11](#_Toc24586210)

[**11.** **Account classification** 12](#_Toc24586211)

[**12.** **Show project list** 12](#_Toc24586212)

[**13.** **Search the project** 13](#_Toc24586213)

[**14.** **Show project details** 13](#_Toc24586214)

[**15.** **Add project** 14](#_Toc24586215)

[**16.** **Edit the project** 15](#_Toc24586216)

[**17.** **Project classification** 15](#_Toc24586217)

[**18.** **Displaying business results** 16](#_Toc24586218)

[**19.** **Displaying business results chart** 17](#_Toc24586219)

[**20.** **The table shows the comparison of business results** 17](#_Toc24586220)

[**21.** **Sign up for business trip** 18](#_Toc24586221)

[**22.** **Approve business trip** 18](#_Toc24586222)

[**23.** **History of business trips** 19](#_Toc24586223)

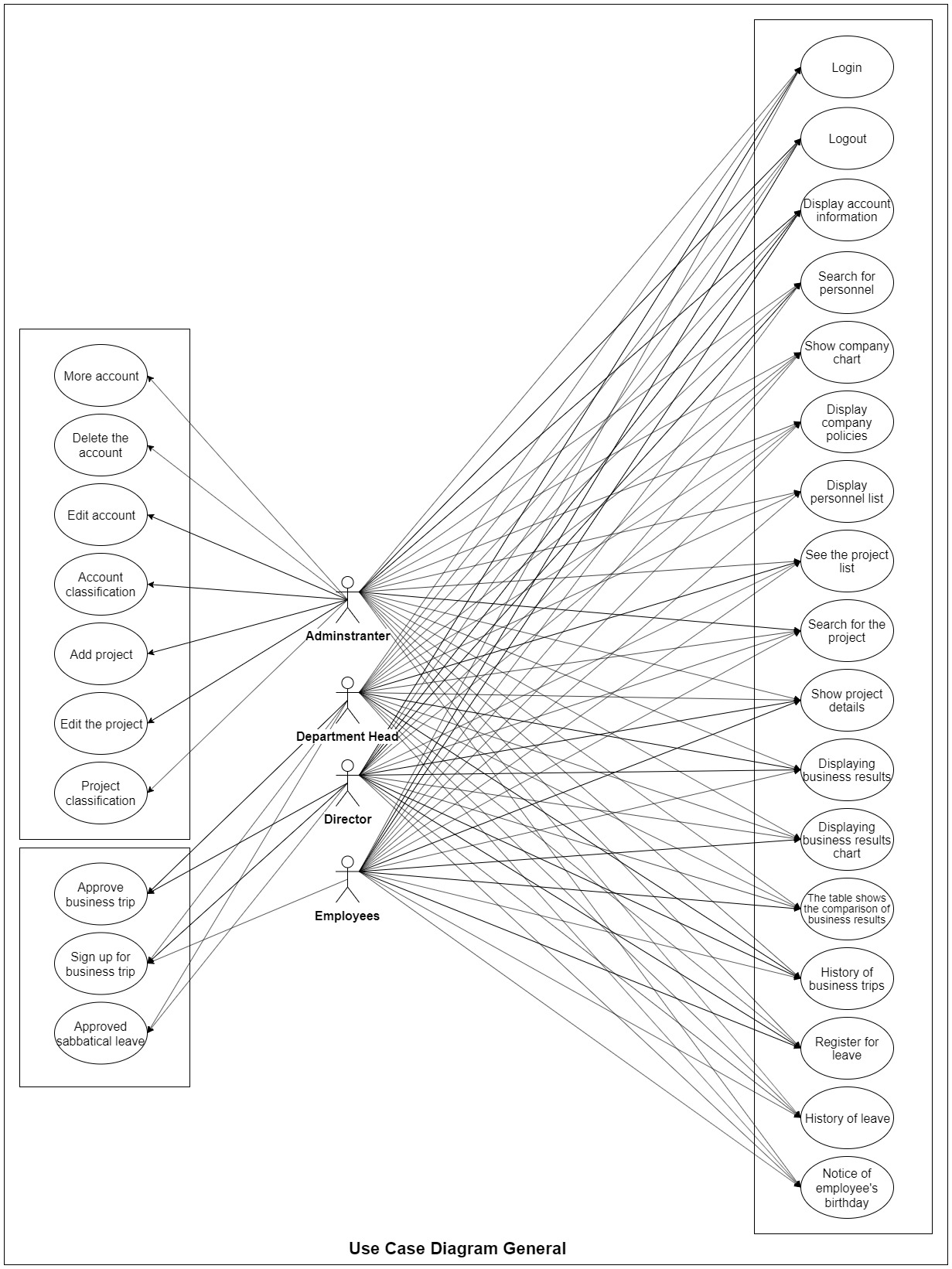
[**24.** **Register for leave** 20](#_Toc24586224)

[**25.** **Approved sabbatical leave** 20](#_Toc24586225)

[**26.** **History of leave** 21](#_Toc24586226)

[**27.** **Notice of employee's birthday** 22](#_Toc24586227)

1. **USE CASE DIAGRAM**
2. **Use Case Diagram General**



1. **Use Case Diagram Leader**
2. **Use Case Diagram Department Head**
3. **Use Case Diagram Admin**
4. **Use Case Diagram Employees**
5. **ENTITY TITLE**

|  |  |
| --- | --- |
| **Entity ID** | **Entity Title** |
| E01 | Director |
| E02 | Department Heads |
| E03 | Administrator |
| E04 | Employees |

1. **USE CASE LIST**

List all use cases following this template:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **UC ID** | **UC Name** | **Description** | **Actors** |
| 01 | UC01 | Login |  |  |
| 02 | UC02 | Logout |  |  |
| 03 | UC03 | Display account information |  |  |
| 04 | UC04 | Search for personnel |  |  |
| 05 | UC05 | Display personnel list |  |  |
| 06 | UC06 | Show company chart |  |  |
| 07 | UC07 | Display company policies |  |  |
| 08 | UC08 | More account |  |  |
| 09 | UC09 | Delete the account |  |  |
| 10 | UC10 | Edit account |  |  |
| 11 | UC11 | Account classification |  |  |
| 12 | UC12 | Show project list |  |  |
| 13 | UC13 | Search the project |  |  |
| 14 | UC14 | Show project details |  |  |
| 15 | UC15 | Add project |  |  |
| 16 | UC16 | Edit the project |  |  |
| 17 | UC17 | Project classification |  |  |
| 18 | UC18 | Displaying business results |  |  |
| 19 | UC19 | Displaying business results chart |  |  |
| 20 | UC20 | The table shows the comparison of business results |  |  |
| 21 | UC21 | Sign up for business trip |  |  |
| 22 | UC22 | Approve business trip |  |  |
| 23 | UC23 | History of business trips |  |  |
| 24 | UC24 | Register for leave |  |  |
| 25 | UC25 | Approved  sabbatical leave |  |  |
| 26 | UC26 | History of leave |  |  |
| 27 | UC27 | Notice of employee's birthday |  |  |

1. **USE CASE DESCRIPTION**
2. **Login**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Logout**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Display account information**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Search for personnel**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Display personnel list**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | Không có | | |
| **Business Rules** |  | | |

1. **Show company chart**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** | Quốc Nhân | Created By: |  |
| **Date Created:** | 12/11/2019 | Date Created: | 12/11/2019 |
| **Actors:** | E03 | | |
| **Description:** | Use case allows E03 show chart company | | |
| **Trigger:** | E03 opens the 'organizational chart' interface | | |
| **Pre-conditions:** | * The E03 has logged in to the system with the E03 account * E03 has information 'organizational chart' | | |
| **Post-conditions:** | * The E03 has logged in to the system with the E03 account * E03 has information 'organizational chart' | | |
| **Normal Flow:** | 1. E03 login to the system 2. The system displays the homepage information 3. E03 click on 'view information' 4. The system displays the page 'view information' 5. User click on 'organization chart' 6. Display system 'organizational chart' 7. Use case ends. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Display company policies**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC07 | | |
| **Use Case: Name:** | Display company policies | | |
| **Created By:** | Quốc Nhân | Created By: |  |
| **Date Created:** | 12/11/2019 | Date Created: | 12/11/2019 |
| **Actors:** | Admin | | |
| **Description:** | Use case allows admin display company policies | | |
| **Trigger:** | The user opens the ‘company policy’ interface | | |
| **Pre-conditions:** | * The user has logged in to the system with the User account * App with information 'company policies' | | |
| **Post-conditions:** | Success:   * User viewable all of information 'company policies'   Failure:   * User not viewable all of information 'company policies' | | |
| **Normal Flow:** | 1. User login to the system 2. The system displays the homepage information 3. User click on 'view information' 4. The system displays the page 'view information' 5. User click on 'company policies' 6. Display system 'company policies' 7. Use case ends. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | Input:   * The user entered the wrong account name or account information.   User entered the wrong format | | |
| **Business Rules** | On this page users can view all of information 'company policies' | | |

1. **More account**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC08 | | |
| **Use Case: Name:** | Add account | | |
| **Created By:** | Quốc Nhân | Created By: |  |
| **Date Created:** | 12/11/2019 | Date Created: | 12/11/2019 |
| **Actors:** | E03 | | |
| **Description:** | Use case allows E03 add account | | |
| **Trigger:** | The E03 opens the ‘add account’ interface | | |
| **Pre-conditions:** | The E03 has logged in to the system with the Admin account | | |
| **Post-conditions:** | Success:   * E03 add account user on page ‘add account’   Failure:   * E03 not add account user on page ‘add account’ | | |
| **Normal Flow:** | 1. E03 click on the ‘Add account’ or ‘Add’ button on the ‘Menu’ interface 2. The system displays the ‘Add account’ interface 3. E03 enter account details 4. E03 select ‘Save’ 5. The system to check the input data 6. The system stores the account information in a database. 7. The system returns to the ‘Account List’ screen and displays the Successful announcement 8. Use case ends | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** | On this page E03 can add account E01,E02 and E04 on page ‘add account’ | | |

1. **Delete the account**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Edit account**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC10 | | |
| **Use Case: Name:** | Edit the account | | |
| **Created By:** | Quốc Nhân | Created By: |  |
| **Date Created:** | 12/11/2019 | Date Created: | 12/11/2019 |
| **Actors:** | E03 | | |
| **Description:** | Use case allows E03 edit the account | | |
| **Trigger:** | The E03 opens the ‘edit account’ interface | | |
| **Pre-conditions:** | The E03 has logged in to the system with the E03 account | | |
| **Post-conditions:** | Success:   * E03 edit account user on page ‘edit account’   Failure:   * E03 not edit account user on page ‘edit account’ | | |
| **Normal Flow:** | 1. E03 click on the ‘Edit’ button on the ‘Account List’ interface. 2. The system uploads data (List of information of each user) to list and displays ‘Edit account’ interface. 3. Edit account information 4. E03 select ‘Save’. 5. The system checks the input data. 6. The system updates the account information into a database. 7. The system returns to the ‘Account List’ screen and displays the Successful announcement 8. Use case ends | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** | On this page E03 can edit account E01, E02 and E04 on page ‘account list’ | | |

1. **Account classification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC11 | | |
| **Use Case: Name:** | Account Classification | | |
| **Created By:** | Đạt Huỳnh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E03 | | |
| **Description:** | E03 want to classified user accounts | | |
| **Trigger:** |  | | |
| **Pre-conditions:** | E03 must login admin web page | | |
| **Post-conditions:** | E03 can classification user accounts at admin web page | | |
| **Normal Flow:** | 1. E03 choose feature “Phân quyền tài khoản” 2. E03 choose user account need to classify 3. Classification for that user account | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Show project list**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC12 | | |
| **Use Case: Name:** | Show Project List | | |
| **Created By:** | Đạt Huỳnh | Update By: |  |
| **Date Created:** | 13/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03, E04 | | |
| **Description:** | User want to see all project | | |
| **Trigger:** |  | | |
| **Pre-conditions:** | E01, E02, E03, E04 must login application | | |
| **Post-conditions:** | E01, E02, E03, E04 see all project in application | | |
| **Normal Flow:** | 1. E01, E02, E03, E04 choose feature “Dự án Bất động sản” 2. Application show list of real estate project | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Search the project**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC13 | | |
| **Use Case: Name:** | Search the project | | |
| **Created By:** | Đạt Huỳnh | Update By: |  |
| **Date Created:** | 13/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03, E04 | | |
| **Description:** | User want to search the project | | |
| **Trigger:** |  | | |
| **Pre-conditions:** | E01, E02, E03, E04 must login application | | |
| **Post-conditions:** | E01, E02, E03, E04 | | |
| **Normal Flow:** | 1. E01, E02, E03, E04 choose feature “Dự án Bất động sản” 2. E01, E02, E03, E04 choose search button 3. E01, E02, E03, E04 input project need to search 4. Return list of projects | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Show project details**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC14 | | |
| **Use Case: Name:** | Show Project Details | | |
| **Created By:** | Đạt Huỳnh | Update By: |  |
| **Date Created:** | 13/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03, E04 | | |
| **Description:** | User want to see the project details | | |
| **Trigger:** |  | | |
| **Pre-conditions:** | E01, E02, E03, E04 must login application | | |
| **Post-conditions:** | E01, E02, E03, E04 | | |
| **Normal Flow:** | 1. E01, E02, E03, E04 choose feature “Dự án Bất động sản” 2. E01, E02, E03, E04 choose project 3. Return project details | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Add project**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Edit the project**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Project classification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** | Không có | | |
| **Exceptions:** | Không có | | |
| **Business Rules** |  | | |

1. **Displaying business results**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** | Không có | | |
| **Exceptions:** | Không có | | |
| **Business Rules** |  | | |

1. **Displaying business results chart**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** | Không có | | |
| **Exceptions:** | Không có | | |
| **Business Rules** |  | | |

1. **The table shows the comparison of business results**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Created By: |  |
| **Date Created:** |  | Date Created: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** | Không có | | |
| **Exceptions:** | Không có | | |
| **Business Rules** |  | | |

1. **Sign up for business trip**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC21 | | |
| **Use Case: Name:** | Sign up for business trip | | |
| **Created By:** | Anh Minh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E01, E02, E04 | | |
| **Description:** | E01, E02, E04 want signup for business trip | | |
| **Trigger:** | E01, E02, E04 clicks the button “Sign up for business trip” | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** | E01, E02, E04 sign up for success business trip | | |
| **Normal Flow:** | 1. E01, E02, E04 choose feature “Dự án Bất động sản” 2. E01, E02, E03, E04 choose “Chuyến công tác” 3. E01, E02, E03, E04 fill the content signup for business trip 4. E01, E02, E03, E04 choose “Gửi đơn” 5. E01, E02, E03, E04 was approved 6. E01, E02, E03, E04 choose “Gửi định vị điểm đi” 7. E01, E02, E03, E04 choose “Gửi định vị điểm đến” 8. E01, E02, E03, E04 choose “Hoàn thành” 9. The system saves data to "History of business trips" | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Approve business trip**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC22 | | |
| **Use Case: Name:** | Approve business trip | | |
| **Created By:** | Anh Minh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E01, E02 | | |
| **Description:** | E01, E02 want Approve business trip | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** | 1. E01, E02 choose feature “Dự án Bất động sản” 2. E01, E02 choose “Chuyến công tác” 3. E01, E02 choose “Duyệt phiếu” 4. E01, E02 choose “Duyệt” 5. The system displays the "Duyệt phiếu thành công" message | | |
| **Alternative Flows:** | Không có | | |
| **Exceptions:** | Không có | | |
| **Business Rules** |  | | |

1. **History of business trips**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC23 | | |
| **Use Case: Name:** | History of business trips | | |
| **Created By:** | Anh Minh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E01, E02, E03, E04 | | |
| **Description:** | E01, E02, E03, E04 want see history of business trips | | |
| **Trigger:** | E01, E02, E03, E04 choose feature “Dự án Bất động sản” | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** | 1. E01, E02, E03, E04 choose feature “Dự án Bất động sản” 2. E01, E02, E03, E04 choose “Chuyến công tác” 3. E01, E02, E03, E04 choose “Lịch sử” 4. The system displays "History of business trips" | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Register for leave**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC24 | | |
| **Use Case: Name:** | Register for leave | | |
| **Created By:** | Anh Minh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E01, E02, E03, E04 | | |
| **Description:** | E01, E02, E03, E04 want Register for leave | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Approved sabbatical leave**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC25 | | |
| **Use Case: Name:** | Approved sabbatical leave | | |
| **Created By:** | Anh Minh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E01, E02 | | |
| **Description:** | E01, E02 want Approved sabbatical leave | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **History of leave**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC26 | | |
| **Use Case: Name:** | History of leave | | |
| **Created By:** | Anh Minh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E01, E02, E03, E04 | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Notice of employee's birthday**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC27 | | |
| **Use Case: Name:** | Notice of employee's birthday | | |
| **Created By:** | Anh Minh | Created By: |  |
| **Date Created:** | 13/11/2019 | Date Created: |  |
| **Actors:** | E01, E02, E03, E04 | | |
| **Description:** | Automatically notify employees' birthdays | | |
| **Trigger:** | Automatically | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |