**3.Use-Case Specification**

**3.1 List of Actors**

|  |  |  |
| --- | --- | --- |
| **No.** | **Actor** | Comment |
| **1** | **Admin** | *Manage all* |
| **2** | **HR Managerment** | *Manage Employee , Manage Section,* |
| **3** | **Departments** | *Manage Employee , Vacancy , Section and View report* |
| **4** | **Employee** | *Update information and Search Employee* |

**3.2 List of Use-Case**

|  |  |  |
| --- | --- | --- |
| **No.** | **Use-Case** | **Comment** |
| 1 | **Login** | *Users logged into the system* |
| **2** | **Logout** | *Users exit the system* |
| **3** | **Create Account** | *Add an account in account list* |
| **4** | **Update Account** | *Update details of account* |
| **5** | **Delete Account** | *Delete an account in account list* |
| **6** | **Add Section** | *Add a section in section list* |
| **7** | **Update Section** | *Update details of section* |
| **8** | **Delete Section** | *Delete a Section in Section list* |
| **9** | **Search Section** | *Find section based on section’s name* |
| **10** | **Add Employee** | *Add an employee in employee list* |
| **11** | **Update Employee** | *Update details of employee* |
| **12** | **Delete Employee** | *Delete an employee in employee list* |
| **13** | **Search Employee** | *Find employee based on employee’s name or full name* |
| **14** | **Add layer** | *Add a layer in layer list* |
| **15** | **Update Layer** | *Update detail of layer* |
| **16** | **Delete Layer** | *Delete a layer in layer list* |
| **17** | **Search Layer** | *Find layer based on layer’s id* |
| **18** | **Add Departments** | *Add an department in department list* |
| **19** | **Update Departments** | *Update detail of department* |
| **20** | **Delete Departments** | *Delete a department in department list* |
| **21** | **Search Department** | *Find department based on department’s name* |
| **22** | **Rotate Employee** | *Rotate employee between departments* |
| **23** | **Process Vacancy** | *Add employee in departments* |
| **24** | **View report** | *Details of report* |
| **25** | **Add Vacancy** | *Add a vacancy in vacancy list* |
| **26** | **Update Vacancy** | *Update detail of vacancy* |
| **27** | **Delete Vacancy** | *Delete a vacancy in vacancy list* |
| **28** | **Search Vacancy** | *Find vacancy based on vacancy’s number* |
| **29** | **View Information** | *Details of information* |
| **30** | **Update Information** | *Update information of accounts* |
| **31** | **History of Employee** | *Details history of employees* |

**3.3 Description**

**3.3.1 Login**

|  |  |
| --- | --- |
| **Use Case** | **Login** |
| Summary : | *Function “Login” allows user login to system with corresponding powers* |
| Major Events: | *Step 1 : When user start application “Form Login” will be displayed*  *Step 2 : User enter their username and password*  *Step 3 : Press button “Login” program will check username and password in database.*  *Step 4 : If exist program will display a confirmation message “Login Successful”*  *Else program will display a confirmation message “Login Failed”*  *Step 5 : User press button “Exit” to exit this form* |
| Other Events: |  |

**3.3.2 Logout**

|  |  |
| --- | --- |
| **Use Case** | **Logout** |
| Summary : | *Function “Logout” help user logout the program* |
| Major Event : | *Step 1 : When user want to signout click "Logout" on the program interface*  *Step 2 : Program will display a confirmation message “Do you want to sign out?”*  *Step 3 : If click “Yes” user will exit program and disconnect with database*  *If click “No” user will turn back application interface* |
| Other Events : |  |

**3.3.3 Create Account**

|  |  |
| --- | --- |
| **Use Case** | **Create Account** |
| Summary : | *Function “Create Account” help user create an account* |
| Major Events : | *Step1 : Click on tab “Account List”*  *Step 2 : Press button “ Create Account”*  *Step 3 : Form “ Create Account” will be displayed. User can insert information of account*  *Step 4 : Press button “Add” program will display a confirmation message “Do you want to create an account?”*  *Step 5 : Click “Yes” the account will be added into the database and displayed on application*  *Or click “No” account won’t be added* |
| Other Events : |  |

**3.3.4 Update Account**

|  |  |
| --- | --- |
| **Use Case** | **Update Account** |
| Summary : | *Function “Update Account” help user update information of account* |
| Major Events : | *Step 1 : Click on tab “Account list”*  *Step 2 : Select a section wants to update then click button “Update Account”*  *Step 3 : “Form Update Account” will be displayed on screen , user edits information of account and then press button “Update”*  *Step 4 : : Program will display a confirmation message “Do you want to update this account?”*  *If click “OK” account will be updated into database and displayed in account list*  *If click “No” account won’t be updated* |
| Other Events : |  |

**3.3.5 Delete Account**

|  |  |
| --- | --- |
| **Use Case** | **Delete Account** |
| Summary : | *Function “ Delete Account” help user delete an account from account list* |
| Major Events : | *Step 1: In tab “Account list” user can view Account list*  *Step 2 :User can choose an account wants to delete and press button “Delete”*  *Step 3 :Program will display a confirmation message “Do you want to delete this account?”*  *Step 4 : If click “Yes” account will be deleted into database and don’t display in account list*  *If click “ No” Undelete account* |

**3.3.6 Add Section**

|  |  |
| --- | --- |
| **Use Case** | **Add Section** |
| Summary : | *Function “Add Section” help user add a section to section list* |
| Major Events : | *Step 1 : Click on tab “Section list”*  *Step 2 : Press button “Add Section”*  *Step 3 : “Form Add Section” will be displayed. User enter information of section and press button “Add”*  *Step 4 :Program will display a confirmation message “Do you want to add section?”*  *Step 5 : If click “OK” section will be added into database and displayed in section list*  *If click “No” section won’t be added* |
| Other Events : |  |

**3.3.7 Update Section**

|  |  |
| --- | --- |
| **Use Case** | **Update Section** |
| Summary : | *Function “Update Section” help user update information of section* |
| Major Events : | *Step 1 : Click on tab “Section list”*  *Step 2 : Select a section wants to update then click button “Update Section”*  *Step 3 : “Form Update Section” will be displayed on screen , user edits information of section and then press button “Update”*  *Step 4 : : Program will display a confirmation message “Do you want to update this section?”*  *If click “OK” section will be updated into database and displayed in section list*  *If click “No” section won’t be updated* |
| Other Events : |  |

**3.3.8 Delete Section**

|  |  |
| --- | --- |
| **Use Case** | **Delete Section** |
| Summary : | *Function “ Delete Section” help user delete a section from section list* |
| Major Events : | *Step 1: In tab “Section list” user can view section list*  *Step 2 :User can choose a section wants to delete and press button “Delete”*  *Step 3 :Program will display a confirmation message “Do you want to delete this section?”*  *Step 4 : If click “Yes” section will be deleted into database and don’t display in section list*  *If click “ No” Undelete section* |
| Other Events : |  |

**3.3.9 Search Section**

|  |  |
| --- | --- |
| **Use Case** | **Search Section** |
| Summary : | *Find section in section list* |
| Major Events : | *Step 1 : Click on tab “Section list”*  *Step 2 : Enter name of section*  *Step 3 : Program will check this information in database*  *Step 4 : If exist program will display this section*  *Else Program will display a confirmation message “No section in section list”.* |
| Other Events : |  |

**3.3.10 Add Employee**

|  |  |
| --- | --- |
| **Use Case** | **Add Employee** |
| Summary : | *Function “Add Employee” help user add an employee to employee list* |
| Major Events : | *Step 1 : Click on tab “Employee list”*  *Step 2 : Press button “Add Employee”*  *Step 3 : “Form Add Employee” will be displayed. User enter information of employee and press button “Add”*  *Step 4 :Program will display a confirmation message “Do you want to add employee?”*  *Step 5 : If click “OK”emlpoyee will be added into database and displayed in employee list*  *If click “No” employee won’t be added* |
| Other Events : |  |

**3.3.11 Update Employee**

|  |  |
| --- | --- |
| **Use Case** | **Update Employee** |
| Summary : | *Function “Update Employee” help user update information of employee* |
| Major Events : | *Step 1 : Click on tab “Employee list”*  *Step 2 : Select an employee wants to update then click button “Update Employee”*  *Step 3 : “Form Update Employee” will be displayed on screen , user edits information of employee and then press button “Update”*  *Step 4 : : Program will display a confirmation message “Do you want to update this employee?”*  *If click “OK” employee will be updated into database and displayed in employee list*  *If click “No” employee won’t be updated* |
| Other Events : |  |

**3.3.12 Delete Employee**

|  |  |
| --- | --- |
| **Use Case** | **Delete Employee** |
| Summary : | *Function “ Delete Employee” help user delete an employee from employee list* |
| Major Events : | *Step 1: In tab “Employee list” user can view employee list*  *Step 2 :User can chose an employee wants to delete and press button “Delete”*  *Step 3 :Program will display a confirmation message “Do you want to delete this employee?”*  *Step 4 : If click “Yes” employee will be deleted into database and don’t display in employee list*  *If click “ No” Undelete employee* |
| Other Events : |  |

**3.3.13 Search Employee**

|  |  |
| --- | --- |
| **Use Case** | **Search Employee** |
| Summary : | *Find employee in employee list* |
| Major Events : | *Step 1 : Click on tab “Employee list”*  *Step 2 : Enter name of employee*  *Step 3 : Program will check this information in database*  *Step 4 : If exist program will display this employee*  *Else Program will display a confirmation message “No employee in employee list”.* |
| Other Events : |  |

**3.3.14 Add Layer**

|  |  |
| --- | --- |
| **Use Case** | **Add Layer** |
| Summary : | *Function “Add Layer” help user add a layer to layer list* |
| Major Events : | *Step 1 : Click on tab “Layer list”*  *Step 2 : Press button “Add Layer”*  *Step 3 : “Form Add Layer” will be displayed. User enter information of layer and press button “Add”*  *Step 4 :Program will display a confirmation message “Do you want to add layer?”*  *Step 5 : If click “OK” layer will be added into database and displayed in layer list*  *If click “No” layer won’t be added* |
| Other Events : |  |

**3.3.15 Update Layer**

|  |  |
| --- | --- |
| **Use Case** | **Update Layer** |
| Summary : | *Function “Update Layer” help user update information of layer* |
| Major Events : | *Step 1 : Click on tab “Layer list”*  *Step 2 : Select a layer wants to update then click button “Update Layer”*  *Step 3 : “Form Update layer” will be displayed on screen , user edits information of layer and then press button “Update”*  *Step 4 : : Program will display a confirmation message “Do you want to update this layer?”*  *If click “OK” layer will be updated into database and displayed in layer list*  *If click “No” layer won’t be updated* |
| Other Events : |  |

**3.3.16 Delete Layer**

|  |  |
| --- | --- |
| **Use Case** | **Delete Layer** |
| Summary : | *Function “ Delete Layer” help user delete a layer from layer list* |
| Major Events : | *Step 1: In tab “Layer list” user can view a layer list*  *Step 2 :User can choose a layer wants to delete and press button “Delete”*  *Step 3 :Program will display a confirmation message “Do you want to delete this layer?”*  *Step 4 : If click “Yes” layer will be deleted into database and don’t display in layer list*  *If click “ No” Undelete layer* |
| Other Events : |  |

**3.3.17 Search Layer**

|  |  |
| --- | --- |
| **Use Case** | **Search Layer** |
| Summary : | *Find layer in layer list* |
| Major Events : | *Step 1 : Click on tab “Layer list”*  *Step 2 : Enter id of layer*  *Step 3 : Program will check this information in database*  *Step 4 : If exist program will display this layer*  *Else Program will display a confirmation message “No layer in layer list”.* |
| Other Events : |  |

**3.3.18 Add Department**

|  |  |
| --- | --- |
| **Use Case** | **Add Department** |
| Summary : | *Function “Add Department” help user add a department to department list* |
| Major Events : | *Step 1 : Click on tab “Department list”*  *Step 2 : Press button “Add Department”*  *Step 3 : “Form Add Department” will be displayed. User enter information of department and press button “Add”*  *Step 4 :Program will display a confirmation message “Do you want to add department?”*  *Step 5 : If click “OK” department will be added into database and displayed in department list*  *If click “No” department won’t be added* |
| Other Events : |  |

**3.3.19 Update Department**

|  |  |
| --- | --- |
| **Use Case** | **Update Department** |
| Summary : | *Function “Update Department” help user update information of department* |
| Major Events : | *Step 1 : Click on tab “Department list”*  *Step 2 : Select a department wants to update then click button “Update Department”*  *Step 3 : “Form Update Department” will be displayed on screen , user edits information of department and then press button “Update”*  *Step 4 : : Program will display a confirmation message “Do you want to update this department?”*  *If click “OK” department will be updated into database and displayed in department list*  *If click “No” department won’t be updated* |
| Other Events : |  |

**3.3.20 Delete Department**

|  |  |
| --- | --- |
| **Use Case** | **Delete Department** |
| Summary : | *Function “ Delete Department” help user delete a department from department list* |
| Major Events : | *Step 1: In tab “Department list” user can view department list*  *Step 2 :User can choose a department wants to delete and press button “Delete”*  *Step 3 :Program will display a confirmation message “Do you want to delete this department?”*  *Step 4 : If click “Yes” department will be deleted into database and don’t display in department list*  *If click “ No” Undelete department* |
| Other Events : |  |

**3.3.21 Search Department**

|  |  |
| --- | --- |
| **Use Case** | **Search Department** |
| Summary : | *Find department in department list* |
| Major Events : | *Step 1 : Click on tab “Department list”*  *Step 2 : Enter name of department*  *Step 3 : Program will check this information in database*  *Step 4 : If exist program will display this department*  *Else Program will display a confirmation message “No department in department list”.* |
| Other Events : |  |

**3.3.22 Rotate Employee**

|  |  |
| --- | --- |
| **Use Case** | **Rotate Employee** |
| Summary : | *Function “Rotate Employee” help user can rotate employee between departments* |
| Major Events : | *Step 1 : Click on tab “Employee list”*  *Step 2 : Select an employee wants to rotate then click button “Rotate Employee”*  *Step 3 : “Form Rotate Employee” will be displayed on screen , user edit employee’s deparment and then press button “Rotate”*  *Step 4 : : Program will display a confirmation message “Do you want to rotate this employee?”*  *If click “OK” employee will be updated into database and displayed in employee list*  *If click “No” employee won’t be rotated* |
| Other Events : |  |

**3.3.23 Process vacancy**

|  |  |
| --- | --- |
| **Use Case** | **Process vacancy** |
| Summary : | *Function “Process Vacancy” help user can appoint employee in departments* |
| Major Events : | *Step 1 : Click on tab “Vacancy list”*  *Step 2 : Select a vacancy wants to process then click button “Process Vacancy”*  *Step 3 : “Form Process Vacancy” will be displayed on screen , user appoint employee in deparment and then press button “Process”*  *Step 4 : : Program will display a confirmation message “Do you want to process this vacancy?”*  *If click “OK” vacancy will be updated into database and displayed in vacancy list*  *If click “No” vacancy won’t be processed* |
| Other Events : |  |

**3.3.24 View Report**

|  |  |
| --- | --- |
| **Use Case** | **View Report** |
| Summary : | *Show all action of user when they’re logging in program* |
| Major Events : | *Step 1 : Click on tab “View Report”*  *Step 2 : “Form View Report” will be displayed on screen.*  *Step 3: User can print report by press button “Print”* |
| Other Events : |  |

**3.3.25 Add Vacancy**

|  |  |
| --- | --- |
| **Use Case** | **Add Vacancy** |
| Summary : | *Function “Add Vacancy” help user add a vacancy to vacancy list* |
| Major Events : | *Step 1 : Click on tab “Vacancy list”*  *Step 2 : Press button “Add Vacancy”*  *Step 3 : “Form Add Vacancy” will be displayed. User enter information of vacancy and press button “Add”*  *Step 4 :Program will display a confirmation message “Do you want to add vacancy?”*  *Step 5 : If click “OK” vacancy will be added into database and displayed in vacancy list*  *If click “No” vacancy won’t be added* |
| Other Events : |  |

**3.3.26 Update Vacancy**

|  |  |
| --- | --- |
| **Use Case** | **Update Vacancy** |
| Summary : | *Function “Update Vacancy” help user update information of vacancy* |
| Major Events : | *Step 1 : Click on tab “Vacancy list”*  *Step 2 : Select a vacancy wants to update then click button “Update Vacancy”*  *Step 3 : “Form Update Vacancy” will be displayed on screen , user edits information of vacancy and then press button “Update”*  *Step 4 : : Program will display a confirmation message “Do you want to update this vacancy?”*  *If click “OK” vacancy will be updated into database and displayed in vacancy list*  *If click “No” vacancy won’t be updated* |
| Other Events : |  |

**3.3.27 Delete Vacancy**

|  |  |
| --- | --- |
| **Use Case** | **Delete Vacancy** |
| Summary : | *Function “ Delete Vacancy” help user delete a vacancy from vacancy list* |
| Major Events : | *Step 1: In tab “Vacancy list” user can view vacancy list*  *Step 2 :User can choose a vacancy wants to delete and press button “Delete”*  *Step 3 :Program will display a confirmation message “Do you want to delete this vacancy?”*  *Step 4 : If click “Yes” vacancy will be deleted into database and don’t display in vacancy list*  *If click “ No” Undelete vacancy* |
| Other Events : |  |

**3.3.28 Search Vacancy**

|  |  |
| --- | --- |
| **Use Case** | **Search Vacancy** |
| Summary : | *Find vacancy in vacancy list* |
| Major Events : | *Step 1 : Click on tab “Vacancy list”*  *Step 2 : Enter id of vacancy*  *Step 3 : Program will check this information in database*  *Step 4 : If exist program will display this vacancy*  *Else Program will display a confirmation message “No vacancy in vacancy list”.* |
| Other Events : |  |

**3.3.29 Search User Login Information**

|  |  |
| --- | --- |
| **Use Case** | **View Information** |
| Summary : | *Find personal information of user (employee)* |
| Major Events : | *Step 1 : Click on tab “Information”*  *Step 2 : “Form Information” will be displayed on screen, this form will show personal information of user is logging*  *Step 3: User can view personal information of another user by enter user’s name and then press button “Search Information”* |
| Other Events : |  |

**3.3.30 Update User Login Information**

|  |  |
| --- | --- |
| **Use Case** | **Update Information** |
| Summary : | *Function “Update Information” help user (employee) update only their personal information* |
| Major Events : | *Step 1 : Click on tab “Information”*  *Step 2 : “Form Information” will be displayed on screen, user can edit only their personal information (address, no.phone, fax, email ) and then press button “Update Information”*  *Step 3 : : Program will display a confirmation message “Do you want to update your information?”*  *If click “OK” user’s information will be updated into database and displayed in employee list*  *If click “No” user’s personal information won’t be update* |
| Other Events : |  |

**3.3.31 History of Employee**

|  |  |
| --- | --- |
| **Use Case** | **History of Employee** |
| Summary : | *Show history of employee* |
| Major Events : | *Step 1 : Click on tab “Employee list”*  *Step 2 : User can choose employee wants to view his/her history and press button “History”*  *Step 3 : Program will show his/her history from joining until now*  *Step 4: User can print his/her history by press button “Print”* |
| Other Events : |  |