

**Capstone Project Report**

**Report 3 – Software Requirement Specification**

– Ho Chi Minh City, January 2021 –

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# I. Project Report

## 1. Status Report

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Work Item** | **Status** | **Notes (Work Item in Details)** |
| 1 |  | Pending |  |
| 2 |  | In Progress |  |
| 3 |  | Completed |  |

## 2. Team Involvements

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task** | **Member** | **Notes (Task Details, etc.)** |
| 1 |  | KienNT |  |
| 2 |  | TuanTV |  |
| 3 |  | AnhLM |  |

## 3. Issues/Suggestions

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Issue** | **Status** | **Notes (Solution, Suggestion, etc.)** |
| 1 |  | Pending |  |
| 2 |  | In Progress |  |
| 3 |  | Completed |  |

# II. Software Requirement Specification

## 1. Overall Description

### 1.1 Product Overview

*[This section presents a high-level overview of the product and the environment in which it will be used, the anticipated users, and known constraints, assumptions, and dependencies]*

*[This section Describe the product's context and origin of the product you are developing. Is it the next member of a growing product line, the next version of a mature system, a replacement for an existing application, or an entirely new product? If this SRS defines a component of a larger system, state how this software relates to the overall system and identify major interfaces between the two. Consider including visual models such as a context diagram or ecosystem map to show the product's relationship to other systems or anything else in the universe.*

*The context diagram presents the boundary and connections between the system you’re developing and everything else in the universe. This identifies external entities (or terminators – software, hardware, human components, and other systems) outside the system that interface to it in some way, as well as data, control, and material flows between the terminators and the system.*

*An ecosystem map shows all of the systems related to the system of interest that interact with one another and the nature of those interactions. It represents scope by showing all the systems that interconnect (directly or indirectly) and that therefore might need to be modified to accommodate your new system]*

<<Sample: The Cafeteria Ordering System is a new software system that replaces the current manual and telephone processes for ordering and picking up meals in the Process Impact cafeteria. The context diagram below illustrates the external entities and system interfaces for release 1.0. The system is expected to evolve over several releases, ultimately connecting to the Internet ordering services for several local restaurants and to credit and debit card authorization services.



>>

### 1.2 Business Rules

|  |  |
| --- | --- |
| ID | Rule Definition |
| BR-01 | The Salesmen cannot edit or remove the submitted reports. |
| BR-02 | The Sales Managers can only add and edit the comment of report. |
| BR-03 | The Sales Managers have also sale working as Salesmen. |
| BR-04 | The Sales Manager creates new target schools list every school year from the schools list data. |
| BR-05 | The Salesmen must submit a report after every business trip to the target schools. |
| BR-06 | The Salesmen must submit a report each time he goes to work with the target schools. |
| BR-07 | The Sales Manager can track the Salesmen’s work-plan, but the Salesmen cannot track the Sales Manager’s work-plan else. |
| BR-08 | Each Target school is assigned to only one Salesman. |
|  |  |
|  |  |

## 2. User Requirements

### 2.1 Overview

#### Use Case Diagramhttps://b.f4.photo.talk.zdn.vn/1815318750948589008/1a051c952ee2ddbc84f3.jpg

#### System Actors

|  |  |  |
| --- | --- | --- |
| **#** | **Actor** | **Description** |
| 1 | Administrator | Administrators managed Accounts and the schools data. |
| 2 | Salesman | The Salesman introduced and marketed Major to schools for cooperation. |
| 3 | Sales Manager | Sales Manager managed Target Schools, Salesmen and their Reports. Sales Manager also marketed as Salesman. |
| 4 | Unauthorized User | The people that have not logged into the system yet. |
| 5 | Authorized User | The people that have logged into the system with the account( Administrator, Salesman, Sales Manager) |
| 6 | <<System>> Handler | The <<System>> Handler deals with internal process. |

#### Use Cases List

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Use Case** | **Primary Actors** | **Secondary Actors** |
| 01 | Login | Unauthorized User |  |
| 02 | View Profile | Authorized User, Salesman, Sales Manager, Administrator |  |
| 03 | Edit Profile | Authorized User, Salesman, Sales Manager, Administrator |  |
| 04 | Logout | Authorized User, Salesman, Sales Manager, Administrator |  |
| 05 | Manage Target Schools  (Search, View) | Salesman |  |
| 06 | Manage Reports  (Create, View, Search) | Salesman |  |
| 07 | Manage Work Plan- Activities  (View, Add New Personal Activity, Edit Personal Activity, Remove Personal Activity) | Salesman |  |
| 08 | Manage Reports  (Comment On Salesmen’s Report) | Sales Manager |  |
| 09 | Manage Target Schools  (View, Add, Edit, Remove, Assign Salesmen) | Sales Manager |  |
| 10 | Manage Salesmen  (Search, View) | Sales Manager |  |
| 11 | Manage accounts  (Create, View, Edit, Search) | Administrator |  |
| 12 | Manage Schools  (Add, View, Edit) | Administrator |  |
| 13 | Make comment notification | <<System>> Handler | Salesman |
| 14 | Make completed target notification | <<System>> Handler | Sales Manager |

### 2.2 <<Unauthorized User>> Overview Use Case



#### Login



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-01 Login** | | |
| Created By: |  | Date Created: | 5/02/2021 |
| Primary Actor: | Unauthorized User | Secondary Actors: | None |
| Description: | This use case allows the user to log into the system to use service of system. | | |
| Trigger: | The user click on the “Login” button on the Login screen. | | |
| Preconditions: | PRE-1. The user have to own an account with username and password.  PRE-2. The user has not logged into system yet.  PRE-3. The user’s device was connected to the internet when logging in. | | |
| Post-conditions: | POST-1. The user successfully log into the system, and redirect the home screen. | | |
| Normal Flow: | **1.0 Login**   1. The user opens login page via web browsers. 2. The user inputs into the username field and the password field on Login form. (see **1.0.E1**, **1.0.E2**) 3. The user clicks on “Login” button. 4. The system validates login information successfully and allows the user to access the System, redirect home screen base on the role of user. | | |
| Alternative Flows: | None | | |
| Exceptions: | **1.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 2 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **1.0.E2 The user inputs wrong the username or password**.  1. The system informs the users that the username or password is wrong.  2a. The User chooses try again command. Return to step 2 Normal Flow.  2b. The user chooses cancel command. The Use case ends. | | |
| Priority: | Medium | | |
| Frequency of Use: | Approximately 200 users, average of 500 usage per day. Peak usage load for this use case is between 6:00 A.M. and 10:00 P.M. local time. | | |
| Business Rules: |  | | |
| Other Information: | None | | |
| Assumptions: | None | | |

### https://f16.photo.talk.zdn.vn/2912878202032592742/42a05042332ec070993f.jpg<<Authorized User >> Overview Use Case

#### View Profile



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-02 View Profile** | | |
| Created By: |  | Date Created: | 5/02/2021 |
| Primary Actor: | Authorized User | Secondary Actors: | None |
| Description: | This use case allows the users view their profile. | | |
| Trigger: | The User chooses View Detail command. | | |
| Preconditions: | PRE-1. The User has been log in to system. | | |
| Post-conditions: | POST-1. The User information is displayed in details as a form. | | |
| Normal Flow: | **2.0 View Profile**   1. The User clicks on the avatar in the navigation bar. 2. The User chooses View Detail command. 3. The system redirects the “Profile” page. The detail information user is displayed on the screen. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

#### Edit Profile

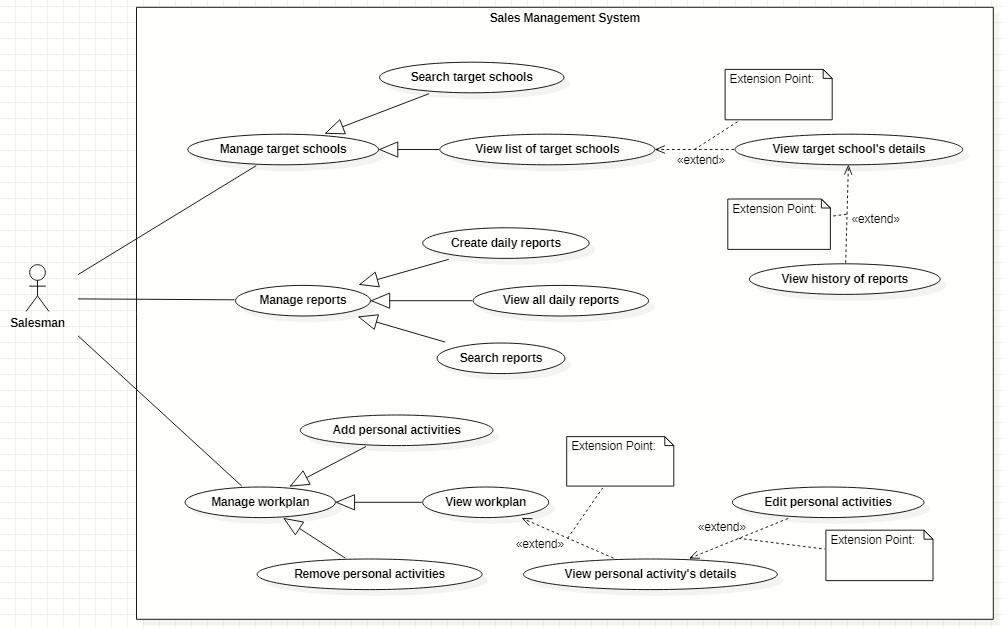


|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-03 Edit Profile** | | |
| Created By: |  | Date Created: | 5/02/2021 |
| Primary Actor: | Authorized User | Secondary Actors: | None |
| Description: | This use case allows the users edit their profile. | | |
| Trigger: | The User chooses Edit Profile command. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the profile page. | | |
| Post-conditions: | POST-1. The User information is displayed in details as a form. | | |
| Normal Flow: | * 1. **Edit Profile**  1. On Profile screen, the User chooses “edit” button in the information row that his want to edit. 2. The User input new context in this row. (see **3.0.E1, 3.0.E2**) 3. The User clicks “save” button when finish. (see **3.0.E3**) 4. The system has successful edit and displays the message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **3.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 2 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **3.0.E2 The User inputs existed and unique information into fields.**  1. The system informs the users that the context of fields is existed.  2a. The User chooses try again command. Return to step 2 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **3.0.E3 The User clicks on cancel button.**  1. The system returns “Manage Accounts” screen. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |

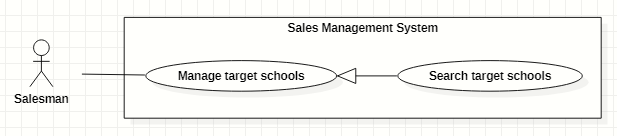
1. ***Logout***

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-04 Logout** | | |
| Created By: |  | Date Created: | 5/02/2021 |
| Primary Actor: | Authorized User | Secondary Actors: | None |
| Description: | This use case allows the users log out of the system. | | |
| Trigger: | The User chooses logout command. | | |
| Preconditions: | PRE-1. The User has been log in to system. | | |
| Post-conditions: | POST-1. The User information is displayed in details as a form. | | |
| Normal Flow: | * 1. **Logout**  1. The User clicks on the avatar in the navigation bar. 2. The User chooses Logout command. 3. The User chooses confirm to logout in confirm dialog. ( see **4.0.E1**) 4. The User is returned login screen. User’s token is removed and user’s session is destroyed in client. | | |
| Alternative Flows: | None | | |
| Exceptions: | **4.0.E1 The User chooses cancel command in confirm logout dialog.**  1. The system returns the working screen of the user. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

### <<Salesman>> Overview Use Case

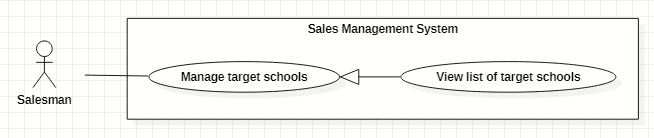


1. ***Search Target Schools.***



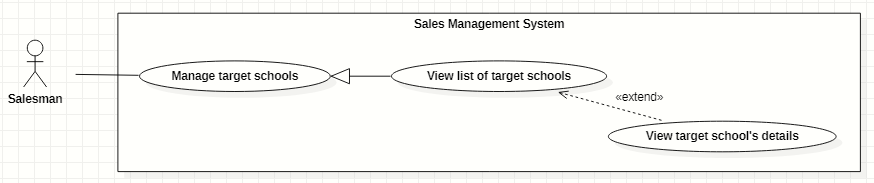
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-05 Search Target Schools** | | |
| Created By: |  | Date Created: | 7/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the users find the target schools based on the school name, scale, address, type, … | | |
| Trigger: | The User chooses “search target school” command. | | |
| Preconditions: | PRE-1. The User has been log in to system. | | |
| Post-conditions: | POST-1. The list of target school is shown. | | |
| Normal Flow: | 1. **Search Target Schools** 2. The user chooses the command to go the target schools screen. 3. The system redirects to the target schools screen and shows full of target schools list. 4. The user input the search field or select searching filters in toolbar to find target school. 5. The system displays the list of target schools as the table. (see **5.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **5.0.E1 The context of search field or selecting filter that the user inputted is not matched any data in database**  1. The system displays “No data” line. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View List of Target Schools



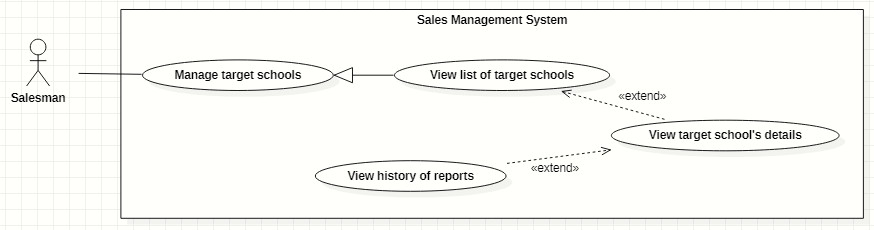
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-06 View List of Target Schools** | | |
| Created By: |  | Date Created: | 7/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view my list of target schools. | | |
| Trigger: | The User chooses “manage target school” command in navigator bar. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the home screen. | | |
| Post-conditions: | POST-1. The list of target school is shown. | | |
| Normal Flow: | 1. **View list of Target Schools.** 2. The user chooses the “Manage target schools” command in Navigator bar to go the target schools screen. 3. The system redirects to the target schools screen and shows full of target schools list. (see **6.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **6.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View Target School’s Detail.



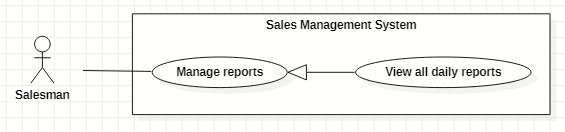
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-07 View Target School’s Detail.** | | |
| Created By: |  | Date Created: | 7/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the detail information of target schools. | | |
| Trigger: | The User chooses view “target school detail” command. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the list of target schools screen. | | |
| Post-conditions: | POST-1. The detail information of target school is shown as a form. | | |
| Normal Flow: | 1. **View Target School’s Detail.** 2. In the list of target schools view, the user selects any row in table and chooses the “view detail” command. 3. The system displays “target school’s detail” view, the target school’s information is displayed as a form. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

1. ***View History of Report.***



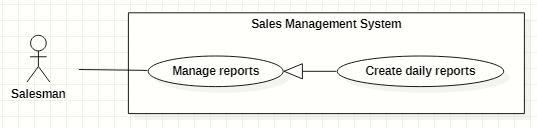
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-08 View History of Reports.** | | |
| Created By: |  | Date Created: | 7/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the reports list of target schools. | | |
| Trigger: | The User chooses “view history of report” command in target school detail screen | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the “target school detail” screen. | | |
| Post-conditions: | POST-1. The reports list of target school are shown. | | |
| Normal Flow: | 1. **View History of Reports.** 2. In the target schools detail screen, the user chooses the “view history of report” command. 3. The system display history of report screen, the report list of target school is displayed. (see **8.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **8.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View All Daily Report.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-09 View All Daily Report.** | | |
| Created By: |  | Date Created: | 8/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the daily report list of all Salesman in company. | | |
| Trigger: | The User chooses the “view all daily report” command. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the home screen. | | |
| Post-conditions: | POST-1. The reports is displayed as the table in “view all daily report” screen. | | |
| Normal Flow: | 1. **View All Daily Report.** 2. In the home screen, the user chooses the “manage report” command. 3. The system display “view all daily report” screen, the report is displayed as the table. (see **9.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **9.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Create Daily Reports



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-10 Create Daily Reports.** | | |
| Created By: |  | Date Created: | 8/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to create daily report. | | |
| Trigger: | The User chooses the “create daily report” command. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “Manage Reports” screen. | | |
| Post-conditions: | POST-1. A new report is created in database. | | |
| Normal Flow: | 1. **Create Daily Reports.** 2. In the “Manage Reports” view, the user clicks on “Create Report” button. (see **10.1**) 3. The “create report” screen is shown. 4. The user inputs the information of report in fields. (see **10.0.E1, 10.0.E2**) 5. The user selects confirm button to submit report. (see **10.0.E3**) 6. The system responses successfully creating message. | | |
| Alternative Flows: | * 1. **Create daily reports on “Manage Target Schools” screen.**  1. The user selects “create report” button on “View List of Target Schools” screen. (UC-06 ). Continue to step 2. | | |
| Exceptions: | **10.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The User chooses cancel command. The use case ends.  **10.0.E2 The User inputs existed and unique information into fields.**  1. The system informs the users that the context of fields is existed.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **10.0.E3 The User clicks on cancel button.**  1. The system returns “Manage Reports” screen. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

***g. Search Reports.***



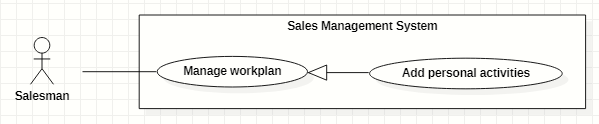
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-11 Search Reports.** | | |
| Created By: |  | Date Created: | 9/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to find the reports. | | |
| Trigger: | The User select on the searching command in “view all daily report” screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “View all daily report” screen. | | |
| Post-conditions: | POST-1. The list of reports is displayed as the table | | |
| Normal Flow: | 1. **Search Reports.** 2. In “View all daily report” screen, the user inputs the search field or select searching filters in toolbar to find reports. 3. The system displays the list of report as the table. (see **11.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **11.0.E1 The context of search field or selecting filter that the user inputted is not matched any data in database.**  1. The system displays “No data” line. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View Work Plan



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-12 View Work Plan** | | |
| Created By: |  | Date Created: | 9/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the work-plan. | | |
| Trigger: | The User chooses the “Manage Work-plan” command. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the home screen. | | |
| Post-conditions: | POST-1. The personal activities is displayed in work-plan schedule. | | |
| Normal Flow: | 1. **View Work Plan.** 2. The user choose “manage work-plan” command in navigator bar. 3. The system displays “work-plan” screen. The Work-plan has the personal activity items that present as a schedule. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

1. ***Add Personal Activities.***



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-13 Add Personal Activities** | | |
| Created By: |  | Date Created: | 9/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to add new personal activity in his work-plan | | |
| Trigger: | The User clicks on the “create” button in work-plan screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “Work-plan” screen. | | |
| Post-conditions: | POST-1. The new personal activity is added in work-plan schedule. | | |
| Normal Flow: | 1. **Add Personal Activities.** 2. In the “Work-plan” screen, the user clicks on “Create” button. 3. The system displays “create activity” form. 4. The user inputs the information in require fields. (see **13.0.E1**) 5. The user clicks on confirm button to add new activity. (see **13.0.E2**) 6. The system responses the successful adding message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **13.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **13.0.E2 The User clicks on cancel button.**  1. The system returns “Work-plan” screen. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View Personal Activity’s Details.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-14 View Personal Activity’s Details.** | | |
| Created By: |  | Date Created: | 9/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the detail information of personal activity. | | |
| Trigger: | The User clicks on the personal activity item in work-plan screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “View work-plan” screen. | | |
| Post-conditions: | POST-1. The detail information of personal activity is shown as a form. | | |
| Normal Flow: | 1. **View Target School’s Detail.** 2. In the “View work-plan” screen, the user selects any item in work-plan. 3. The system displays “personal activity’s detail ” view, the personal activity’s information is displayed as a form. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Edit Personal Activities.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-15 Edit Personal Activities** | | |
| Created By: |  | Date Created: | 11/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to add new personal activity in his work-plan | | |
| Trigger: | The User chooses the “Add Personal Activity” command. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “Work-plan” screen. | | |
| Post-conditions: | POST-1. The personal activity is edited information. | | |
| Normal Flow: | 1. **Edit Personal Activities.** 2. In the “Work-plan” screen, the user clicks on the “activity item” in the work-plan schedule and select “Edit” command. 3. The system displays the “edit activity” form. 4. In the Edit form, the User chooses “edit” button in the information row that his want to edit. 5. The User input new context in this row. (see **15.0.E1**) 6. The User clicks “save” button when finish. (see **15.0.E2**) 7. The system responses the successful editing message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **15.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **15.0.E2 The User clicks on cancel button.**  1. The system returns “Work-plan” screen. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

1. ***Remove Personal Activities.***

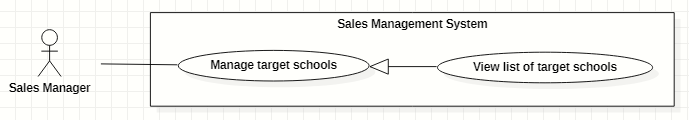


|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-16 Remove Personal Activities** | | |
| Created By: |  | Date Created: | 11/02/2021 |
| Primary Actor: | Salesman, Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to remove the personal activity in his work-plan | | |
| Trigger: | The User chooses the “Remove Personal Activity” command. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “View work-plan” screen. | | |
| Post-conditions: | POST-1. The personal activity is removed. | | |
| Normal Flow: | 1. **Edit Personal Activities.** 2. In the “Work-plan” screen, the user clicks on the “activity item” in the work-plan schedule and select “remove” command. 3. The User clicks “confirm” button to confirm removing. (see **16.0.E1**) 4. The system responses the successful removing message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **16.0.E1 The User clicks on cancel button.**  1. The System return to “view work-plan” screen. Use case ends. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 2.5 <<Sales Manager >> Overview Use Case.

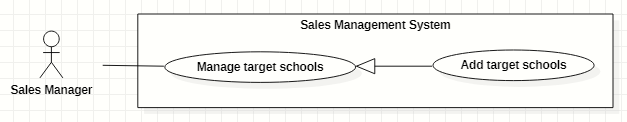
## https://f20-zpc.zdn.vn/1210249421562783260/a0c1fc9b4defbeb1e7fe.jpg

## View List of Target Schools.

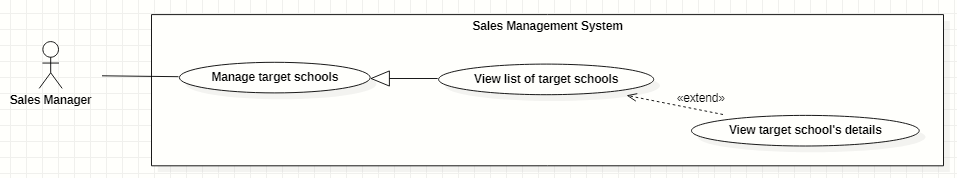


|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-17 View List of Target Schools** | | |
| Created By: |  | Date Created: | 11/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view list of all target schools. | | |
| Trigger: | The User chooses the “target schools” command in the navigator bar. | | |
| Preconditions: | PRE-1. The User has been log in to system. | | |
| Post-conditions: | POST-1. The list of target schools is displayed as a table in the target school screen. | | |
| Normal Flow: | 1. **View List of target Schools.** 2. The user choose “Manage target schools” command in the navigator bar. 3. The system redirects to “target schools” screen and displays the target schools list as a table. (see **17.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **17.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Add Target Schools.

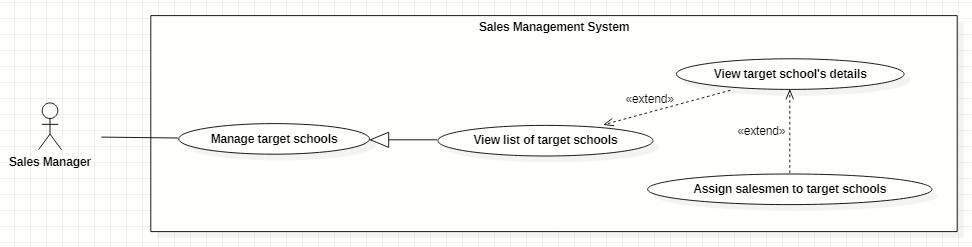


|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-18 Add Target Schools** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to add new target schools. | | |
| Trigger: | The User clicks on the “Add” button in target schools screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the “Manage Target Schools” screen. | | |
| Post-conditions: | POST-1. The new target schools are added in database. | | |
| Normal Flow: | 1. **Add Target Schools.** 2. The User clicks on “Add” button in screen. 3. The system displays the “Add” form. 4. The User inputs into information fields. (see **18.0.E1, 18.0.E2**) 5. The User selects “Save” button to confirm adding. (see **18.0.E3**) 6. The system responses the successful adding message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **18.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The User chooses cancel command. The use case ends.  **18.0.E2 The User inputs existed and unique information into fields.**  1. The system informs the users that the context of fields is existed.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **18.0.E3 The User clicks on cancel button.**  1. The system returns “Manage Target Schools” screen. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

1. ***View Target School’s Details.***

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-19 View Target School’s Details.** | | |
| Created By: |  | Date Created: | 11/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the detail information of target schools. | | |
| Trigger: | The User clicks on “View detail” button on target school row. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “View List of Target School” screen. | | |
| Post-conditions: | POST-1. The detail information of target school is shown as a form. | | |
| Normal Flow: | 1. **View Target School’s Detail.** 2. In the “View List of Target School” table, the user selects a target school row. 3. The system displays “target school’s details” view, the target school’s information is displayed as a form. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

1. ***Assign Salesmen to Target Schools.***



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-20 Assign Salesmen to Target Schools.** | | |
| Created By: |  | Date Created: | 11/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user assign Salesmen to target schools. | | |
| Trigger: | The User clicks on the “Assign” button in target schools screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the “Manage target school” screen. | | |
| Post-conditions: | POST-1. The target schools are assigned to Salesmen. | | |
| Normal Flow: | 1. **Assign Salesmen to Target Schools.** 2. The User ticks on the target schools row that they want to assign. 3. The User clicks on “Assign” button in screen. (see **20.1**) 4. The system displays the “Assign” form. 5. The User inputs into information fields. (see **20.0.E1**) 6. The User selects “Save” button to confirm assigning. (see **20.0.E2**) 7. The system responses the successful assigning message. | | |
| Alternative Flows: | * 1. **Assign the already assigned Target Schools.**  1. The system informs the user that does replace comment in the report. 2. The user choose confirm. Continue to step 3 of Normal Flow. | | |
| Exceptions: | **20.0.E1** T**he User inputs invalid format context into fields.**  1. The system informs the user that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 4 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **20.0.E2 The User clicks on cancel button**.  1. The system returns “Manage target schools” screen. Use case ends. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Remove Target School.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-21 Remove Target Schools.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to remove the target schools | | |
| Trigger: | The User chooses the “Remove Target School” command on the target school row. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “List of Target Schools” screen. | | |
| Post-conditions: | POST-1. The target schools are removed out of table. | | |
| Normal Flow: | 1. **Remove Target Schools.** 2. On the list of target schools table, the select “remove” command. 3. The User clicks “confirm” button to confirm removing. (see **21.0.E1**) 4. The system responses the successful removing message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **21.0.E1 The user clicks “cancel” button.**  1. The System returns to “List of target schools” screen. The Use case ends. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Comment on Salesmen’s reports



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-22 Comment On Salesmen’s Reports.** | | |
| Created By: |  | Date Created: | 12/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to remove the target schools | | |
| Trigger: | The User chooses the “Remove Target School” command on the target school row. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “Manage reports” screen. | | |
| Post-conditions: | POST-1. The target schools are removed out of table. | | |
| Normal Flow: | 1. **Comment on Salesmen’s report.** 2. On the list of reports screen, the user selects “comment” command. 3. The system displays the form to add comment. 4. The User inputs comment’s context into the text field. 5. The User clicks on “Save” button when completed. (see **22.0.E1**) 6. The System responses the successful message. (see **22.1**) | | |
| Alternative Flows: | * 1. **Comment on the commented reports.**  1. The system notify that the report has already commented and confirm to edit. 2. The User click to confirm to edit comment. Return step 5 of Normal Flow (see **22.0.E1**) | | |
| Exceptions: | **22.0.E1 The user clicks “cancel” button.**  1. The System returns to “Manage Reports” screen. The Use case ends. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View list of Salesmen.



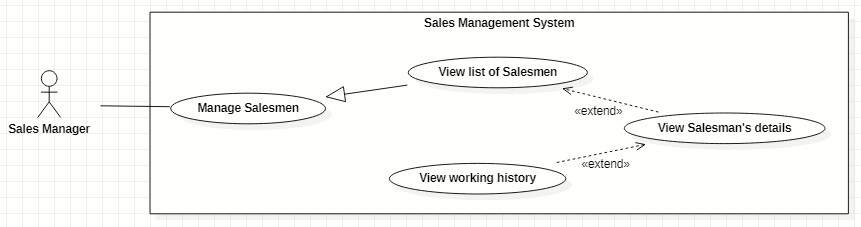
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-23 View List of Salesmen.** | | |
| Created By: |  | Date Created: | 12/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view list of all Salesmen. | | |
| Trigger: | The User chooses the “Mange Salesmen” command in the navigator bar. | | |
| Preconditions: | PRE-1. The User has been log in to system. | | |
| Post-conditions: | POST-1. The list of Salesmen is displayed as a table in the List of Salesmen screen. | | |
| Normal Flow: | 1. **View List of Salesmen.** 2. The user choose “Manage Salesmen” command in the navigator bar. 3. The system redirects to “List of Salesmen” screen and displays list as a table. (see **23.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **23.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View Salesman’s Details

## https://f9.photo.talk.zdn.vn/8041278409231361714/b64f95a160cf9391cade.jpg

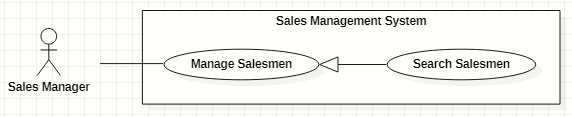
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-24 View Salesman’s Details.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the detail information of Salesmen. | | |
| Trigger: | The User clicks on “View detail” button on Salesman row. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “List of Salesmen” screen. | | |
| Post-conditions: | POST-1. The detail information of target school is shown as a form. | | |
| Normal Flow: | 1. **View Target School’s Detail.** 2. In the List of Salesmen table, the user selects a Salesmen row. 3. The system displays “Salesman’s details” view, the Salesman’s information is displayed as a form. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

1. ***View Working History.***



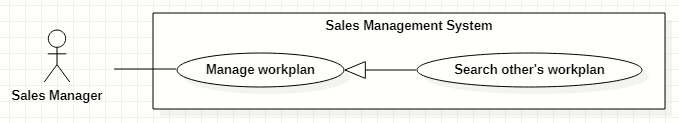
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-25 View Working History.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the user to view the target list and reports of Salesmen. | | |
| Trigger: | The User chooses “Working History” tab in Salesman detail screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the “target school detail” screen. | | |
| Post-conditions: | POST-1. The reports list of target school are shown. | | |
| Normal Flow: | 1. **View History of Reports.** 2. In the Salesman’s detail screen, the user chooses the “working history” tab. 3. The system display working history screen, the target list and reports list are displayed. (see **25.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **25.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

***j. Search Salesmen.***



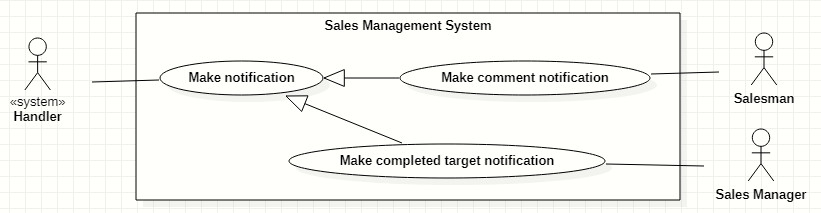
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-26 Search Salesmen** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the users find the salesmen based on the name, phone, address, gender, … | | |
| Trigger: | The User chooses “search target school” command on the target schools screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on “List of Salesmen” screen. | | |
| Post-conditions: | POST-1. The list of target school is shown. | | |
| Normal Flow: | 1. **Search Salesmen.** 2. The user input the search field or select searching filters in toolbar to find Salesmen. (see **26.1.E1**) 3. The system displays the list of Salesmen as the table. | | |
| Alternative Flows: | None | | |
| Exceptions: | **26.0.E1 The context of search field or selecting filter that the user inputted is not matched any data in database**  1. The system displays “No data” line. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Search Other’s Work-plan.

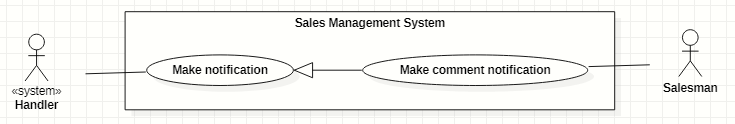


|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-27 Search other’s work-plan.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | None |
| Description: | This use case allows the users find and track the other’s work-plan | | |
| Trigger: | The User chooses “search target school” command on the target schools screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on “work-plan” screen. | | |
| Post-conditions: | POST-1. The other’s work-plan is shown. | | |
| Normal Flow: | 1. **Search other’s work-plan.** 2. The user input the search field in “work-plan” screen to find other’s work-plan. (see **27.0,E1**) 3. The system displays the other’s work-plan as a schedule. | | |
| Alternative Flows: | None | | |
| Exceptions: | **27.0.E1 The context of search field or selecting filter that the user inputted is not matched any data in database**  1. The system displays “No data” line. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## <<System Handler>> Overview Use Case.

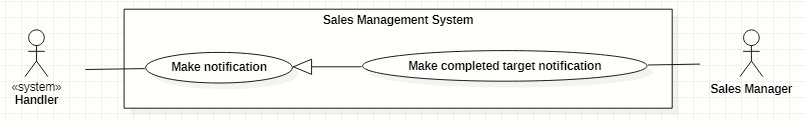


## Make comment notification.



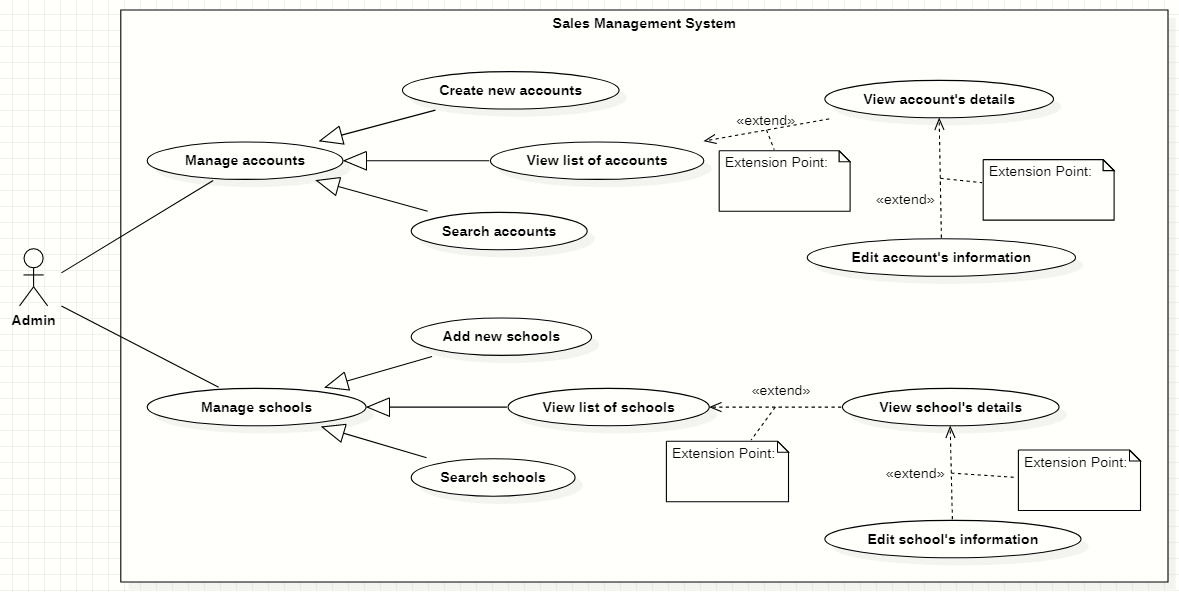
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-28 Make comment notification.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | <<System>> Handle | Secondary Actors: | Salesman |
| Description: | This use case allows the system handler to make comment notification to Salesman. | | |
| Trigger: | The System takes adding comment of report successfully. | | |
| Preconditions: | PRE-1. The Manager just commented a report of the target Salesman. | | |
| Post-conditions: | POST-1. The comment notification is sent to Salesman. | | |
| Normal Flow: | 1. **Make comment notification.** 2. The System handler retrieves comment’s adding request. 3. The System handler retrieves notification information and sends to Salesman. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Make completed target notification

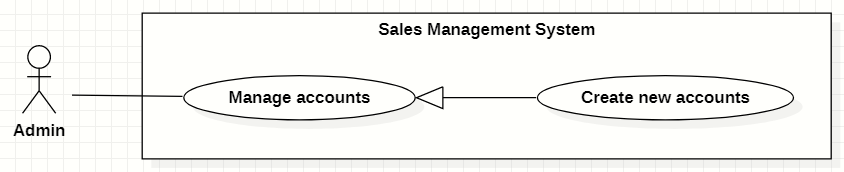


|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-29 Make completed target notification.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | <<system>> Handler | Secondary Actors: | Sales Manager |
| Description: | This use case allows the system handler to make and send completed target notification to Sales Manager. | | |
| Trigger: | The System takes completed of target school successfully. | | |
| Preconditions: | PRE-1. The Salesman just done a target school. | | |
| Post-conditions: | POST-1. The completed target notification is sent to Sales Manager. | | |
| Normal Flow: | 1. **Make completed target notification.** 2. The System handler retrieves completed target request. 3. The System handler retrieves notification information and sends to Sales Manager. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## <<Admin >> Overview Use Case.



## Create New Accounts.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-30 Create New Accounts** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the user to add new account. | | |
| Trigger: | The User clicks on the “Create” button in Manage Accounts screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the “Manage Accounts” screen. | | |
| Post-conditions: | POST-1. The new target schools are added in database. | | |
| Normal Flow: | 1. **Create New Accounts.** 2. The User chooses “Manage Accounts” command on the navigator bar. 3. The system redirects the Manage Accounts screen. 4. The User clicks on “Add” button in screen. 5. The system displays the “Add” form. 6. The User inputs into information fields. (see **30.0.E1, 30.0.E2**) 7. The User selects “Save” button to confirm adding. (see **30.0.E3**) 8. The system responses the successful adding message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **30.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 5 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **30.0.E2 The User inputs existed and unique information into fields.**  1. The system informs the users that the context of fields is existed.  2a. The User chooses try again command. Return to step 5 Normal Flow.  2b. The user chooses cancel command. The Use case ends.  **30.0.E3 The User clicks on cancel button.**  1. The system returns “Manage Accounts” screen | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View List of Accounts



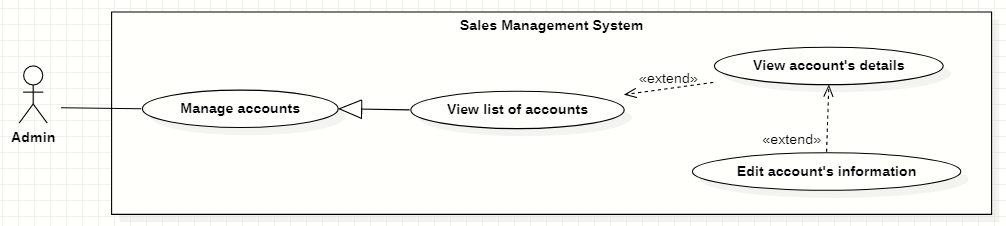
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-31 View List of Accounts.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the user to view accounts list. | | |
| Trigger: | The User chooses the “Manage account” in navigator bar. | | |
| Preconditions: | PRE-1. The User has been log in to system. | | |
| Post-conditions: | POST-1. The list of Accounts is shown as a table on the “Manage Accounts” screen, | | |
| Normal Flow: | 1. **View List of Accounts.** 2. The User chooses “Manage Accounts” command on the navigator bar. 3. The system redirects the Manage Accounts screen. 4. The list of Accounts is shown as a table on the Manage Accounts screen. (see **31.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **31.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View Account’s Details.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-32 View Account’s Details.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the user to view the detail information of Salesmen. | | |
| Trigger: | The User clicks on the “View details” command on Salesman row. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “Manage Accounts” screen. | | |
| Post-conditions: | POST-1. The detail information of account is shown as a form. | | |
| Normal Flow: | 1. **View Account’s Detail.** 2. In the “Manage Accounts” screen from the List of Accounts table, the user selects the account row and chooses “View detail” command. 3. The system displays “Account’s details” view, the Account’s information is displayed as a form. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

1. ***Edit Account’s Information.***



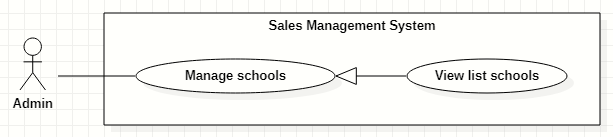
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-33 Edit Account’s Information.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the users to edit the account’s information. | | |
| Trigger: | The User chooses Edit command in “Account’s details” page. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the “Account’s details” screen. | | |
| Post-conditions: | POST-1. The Account information is edited in database. | | |
| Normal Flow: | 1. **Edit Account’s Information** 2. On “Account’s details” screen, the User chooses “edit” button in the information row that his want to edit. 3. The User input new context in this row. (see **33.0.E1, 33.0.E2)** 4. The User clicks “save” button when finish. (see **33.0.E3**) 5. The system has successful edit and displays the message | | |
| Alternative Flows: | None | | |
| Exceptions: | **33.0.E1 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 2 Normal Flow.  2b. The user chooses cancel editing command. The Use case ends.  **33.0.E2 The User inputs existed and unique information into fields.**  1. The system informs the users that the context of fields is existed.  2a. The User chooses try again command. Return to step 2 Normal Flow.  2b. The user chooses cancel editing command. The Use case ends.  **33.0.E3 The User clicks on cancel button**.  1. The system returns “Account’s details” screen. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |

## Search Accounts.

## https://f6.photo.talk.zdn.vn/6386123229091516934/919c34046270912ec861.jpg

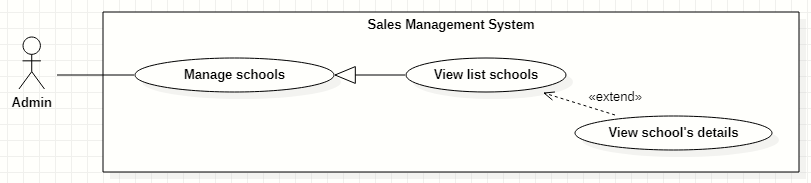
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-34 Search Accounts** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the users to find the accounts based on the username, phone, address, … | | |
| Trigger: | The User chooses “Search Accounts” command on the “Manage Accounts” screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on “Manage Account” screen. | | |
| Post-conditions: | POST-1. The list of accounts is shown. | | |
| Normal Flow: | 1. **Search Account.** 2. The user input the search field or select searching filters in toolbar to find Accounts. 3. The system displays the list of Accounts as the table. (see **34.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **34.0.E1 The context of search field or selecting filter that the user inputted is not matched any data in database**  1. The system displays “No data” line. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View List of Schools.



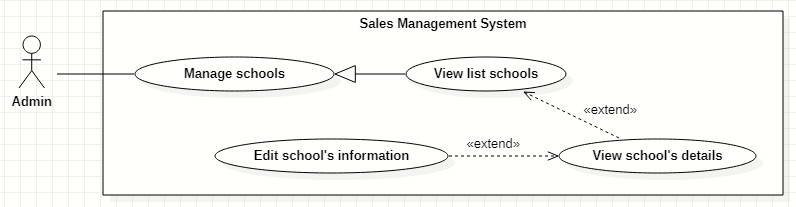
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-35 View list Schools.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the user to view schools list. | | |
| Trigger: | The User chooses the “Manage Schools” in navigator bar. | | |
| Preconditions: | PRE-1. The User has been log in to system. | | |
| Post-conditions: | POST-1. The list of Schools is shown as a table on the “Manage Schools” screen. | | |
| Normal Flow: | 1. **View List of Schools.** 2. The User chooses “Manage Schools” command on the navigator bar. 3. The system redirects the Manage Schools screen. 4. The list of Schools is shown as a table on the Manage Schools screen. (see **35.0.E1**) | | |
| Alternative Flows: | None | | |
| Exceptions: | **35.0.E1 The data is null in database.**  1. The system displays “No data” line on the table. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## View School’s Details.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-36 View School’s Details.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the user to view the detail information of Schools. | | |
| Trigger: | The User clicks on “View detail” command on a School row. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The user is on the “Manage Schools” screen. | | |
| Post-conditions: | POST-1. The detail information of schools is shown as a form. | | |
| Normal Flow: | 1. **View School’s Details.** 2. In the “Manage Schools” screen from the List of Schools table, the user selects a school row and chooses “View detail” command. 3. The system displays “School’s details” view, the School’s information is displayed as a form. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Edit School’s Information.



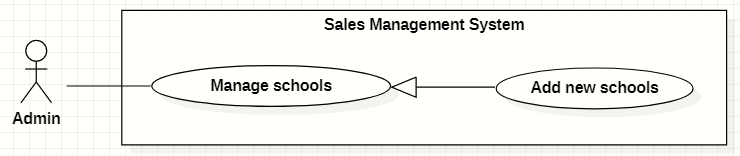
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-37 Edit School’s Information.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the users to edit the school’s information. | | |
| Trigger: | The User chooses Edit command in “School’s details” screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the school’s details screen. | | |
| Post-conditions: | POST-1. The School’s is edited in database. | | |
| Normal Flow: | 1. **Edit Profile** 2. On “School’s details” screen, the User chooses “edit” button in the information row that his want to edit. 3. The User input new context in this row. (see **37.0.E2, 37.0.E3**) 4. The User clicks “save” button when finish. (see **37.0.E1**) 5. The system has successful edit and displays the message. | | |
| Alternative Flows: | None | | |
| Exceptions: | **37.0.E1 The User clicks on cancel button**.  1. The system returns “Manage schools” screen.  **37.0.E2 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel adding command. The Use case ends.  **37.0.E3 The User inputs existed and unique information into fields.**  1. The system informs the users that the context of fields is existed.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel adding command. The Use case ends. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |

## Search Schools.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-38 Search Schools** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the users to find the schools based on the name, district, scale, … | | |
| Trigger: | The User chooses “Search Schools” command on the “Manage Schools” screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on “Manage Schools” screen. | | |
| Post-conditions: | POST-1. The list of accounts is shown. | | |
| Normal Flow: | 1. **Search Schools.** 2. The user input the search field or select searching filters in toolbar to find Schools. (see **38.0.E1**) 3. The system displays the list of Schools as the table. | | |
| Alternative Flows: | None | | |
| Exceptions: | **38.0.E1 The context of search field or selecting filter that the user inputted is not matched any data in database**  1. The system displays “No data” line. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## Add New Schools.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-39 Add New Schools** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | None |
| Description: | This use case allows the user to add new schools. | | |
| Trigger: | The User clicks on the “Add” button in the Manage Schools screen. | | |
| Preconditions: | PRE-1. The User has been log in to system.  PRE-2. The User is on the Manage Schools screen. | | |
| Post-conditions: | POST-1. The new schools are added in database. | | |
| Normal Flow: | 1. **Add New Schools.** 2. On the “Manage School” screen, the User clicks on “Add” button. (see **39.1**) 3. The system displays the “Add” form. 4. The User inputs into information fields. (see **39.0.E2**) 5. The User selects “Save” button to confirm adding. (see **39.0.E1, 39.0.E3**) 6. The system responses the successful adding message. | | |
| Alternative Flows: | * 1. **Add new schools by import file.**  1. The user clicks on “Import file” button to add the schools. 2. The system shows on the importing view. 3. The user clicks on “Import file” button on the view. 4. The system displays Windows Explorer to retrieves the file in client device. 5. The user selects the file to import and chooses confirm command. .(**39.1.E1, 39.1.E2**) 6. The system responses the successful adding message | | |
| Exceptions: | **39.0.E1 The User clicks on cancel button**.  1. The system returns “manage schools” screen.  **39.0.E2 The User inputs invalid format context into fields.**  1. The system informs the users that the context of fields is invalid format.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel adding command. The Use case ends.  **39.0.E3 The User inputs existed and unique information into fields.**  1. The system informs the users that the context of fields is existed.  2a. The User chooses try again command. Return to step 3 Normal Flow.  2b. The user chooses cancel adding command. The Use case ends.  **39.1.E1 The user selects invalid format file – ( The right format is .xlsx file)**  1. The system informs the users that the file is invalid format.  2a. The user chooses cancel importing command. The Use case ends.  2b. The user chooses try again command. Return to step 5 in the Alternative Flows.  **39.1.E2 The user selects a file that has the size more than 5 Mb.**  1. The system informs the users that the file is over size.  2a. The user chooses cancel importing command. The Use case ends.  2b. The user chooses try again command. Return to step 5 in the Alternative Flows. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | None | | |
| Other Information: | None | | |
| Assumptions: | None | | |

## 3. Functional Requirements

### 3.1 System Functional Overview

#### a. Screen Flow

*[This part show the system screens and the relationship among screens. You can draw the Screens Flow for the system in the form of diagram as below]*



#### b. Screen Details

*[Provide the descriptions for the screens in the Screens Flow above]*

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **Screen** | **Description** |
| 1 | Order Meals | Create Order | <<Screen Brief description>> |
| 2 | Order Meals | Change Order |  |
| 3 | .. |  |  |

#### c. Screen Authorization

*[Provide the system roles authorization to the system features (down to screens, and event to the screen activities if applicable) in the table form as below – replace Role1, Role2,… with the specific system user role names]*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | **Role1** | **Role2** | **Role3** | **Role4** | **RoleX** |
| <<Screen Name1>> | X |  |  | X | X |
| <<Screen Activity>> |  |  |  | X | X |
| <<Screen Name2>> | X |  |  | X |  |
| Query All Data | X |  |  |  |  |
| Query Own Data |  |  |  | X |  |
| Query Managed Data |  |  |  | X |  |
| Add New Data |  |  |  | X | X |
| Update All Data |  |  |  |  | X |
| Update Own Data |  |  |  |  | X |
| Update Managed Data |  |  |  |  | X |
| Delete Data |  |  |  |  |  |
| … |  |  |  |  |  |

In which:

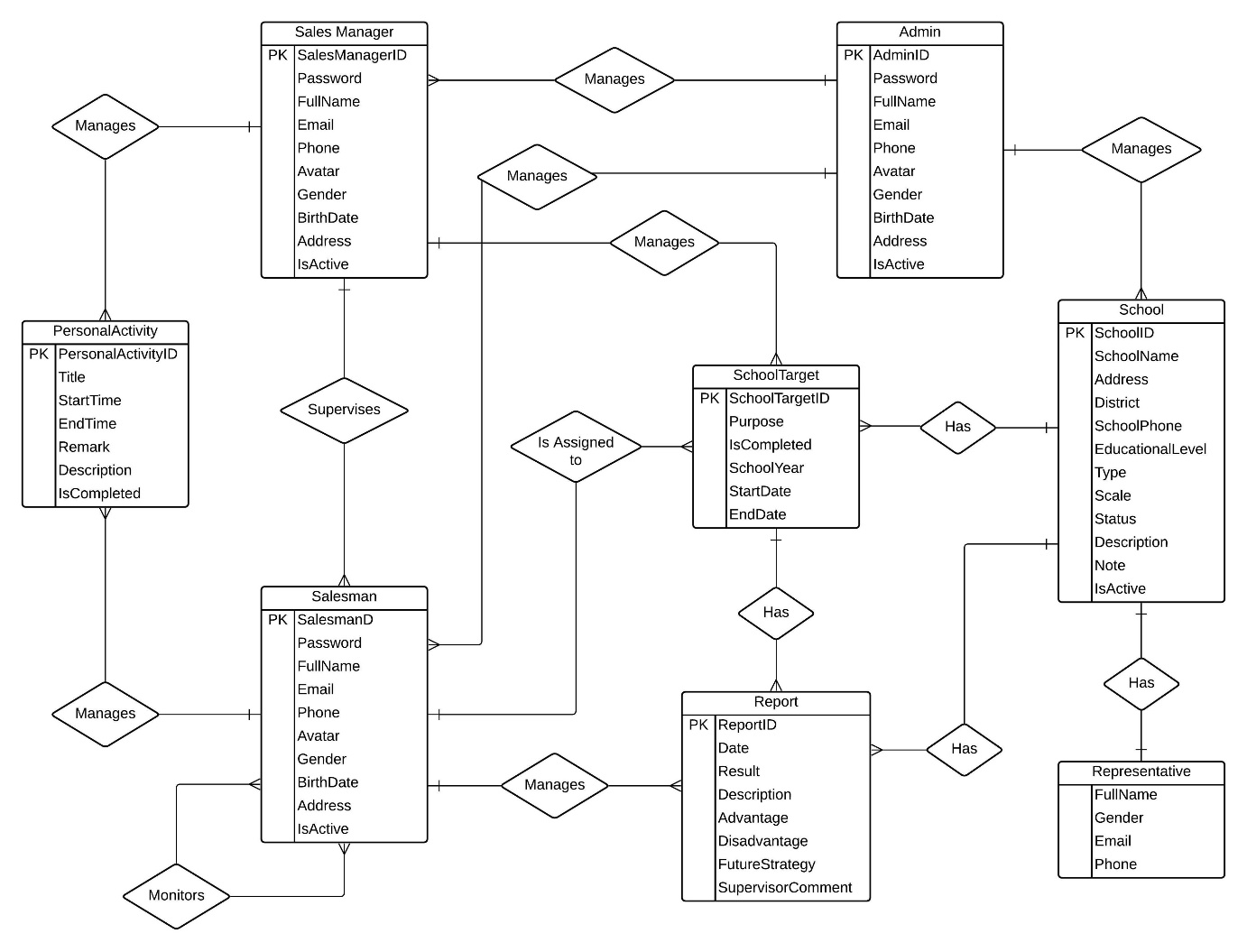
* Role1: <<role1 description>>
* Role2: <<role2 description>>
* …

#### d. Non-Screen Functions

*[Provide the descriptions for the non-screen system functions, i.e batch/cron job, service, API, etc.]*

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **System Function** | **Description** |
| 1 | <<Feature Name>> | <<Function Name1>> | <<Function Name1 Description>> |
| 2 | … |  |  |

#### e. Entity Relationship Diagram



**Entities List**

|  |  |  |
| --- | --- | --- |
| **#** | **Entity** | **Description** |
| 1 | Admin | The Admin is an entity presenting a person who manages accounts and whole schools data of sale department. Containing information of admin (id, username, full name, phone, email, address, birthday, gender). |
| 2 | Salesman | The Salesman is an entity presenting a person who goes to work with the assigned target schools. Containing information of Salesman (id, username, full name, phone, email, birthday, address, gender) |
| 3 | Sales Manager | The Sales Manager is an entity presenting a person who manages and assigns the Target Schools to the Salesmen. Containing information of Sales Manager (id, username, full name, phone, email, birthday, address, gender) |
| 4 | School | The School is an entity presenting the school that was collected information and was select to become the target. Contain information of School (id, name, address, phone, scale, type, description, level) |
| 5 | Target School | The Target School is an entity presenting the target that Sales Manager creates base on Schools list and assigns to Salesmen. Containing information of School (id, name, purpose, school year, start-date, end-date) |
| 6 | Report | The Report is an entity presenting the report that Salesmen must submits to Sales Manager. Containing the report information (id, date, result, advantage, disadvantage, future strategy, supervisor comment) |
| 7 | Personal Activity | The Personal Activity is an entity presenting an activity that Salesmen or Sales Managers create in work-plan and execute based on that. Containing the Personal Activity information (id, title, start time, end time, remark, description) |
| 8 | Representative | The Representative is an entity presenting a person who is the representative for the school to contact. Containing information of Representative (full name, gender, email, phone) |

### 3.2 <<Feature Name 1>>

#### a. <<Function Name 1>>

*[A function can be a screen or a non-screen function (listed in the part 5.1 above). In this part, you need to provide the details on the related function, focus on mentioning below information*

* *Function trigger: how this function is triggered (navigation path, a timing frequency, etc.*
* *Function description: actors/roles, purpose, interface, data processing, etc.*
* *Screen layout: mockup prototype of the screen, sample below is for Manage Products screen*

**

* *Function Details: provide explanation for the data, validation, functionalities (for both normal cases and abnormal cases), etc. of the function so that the reader can image how it work.*

*]*

#### b. <<Function Name 2>>

…

### 3.3 <<Feature Name 2>>

…

## 4. Non-Functional Requirements

### 4.1 External Interfaces

#### a. User Interfaces

UI-1: General requirements for graphics user interface is the GUI should be simple, clear, intuitive and reminiscent.

* Some design principles will be taken into consideration:
* UI for business web applications - Janko Jovanovic [Ref: <http://www.smashingmagazine.com/2010/02/25/designing-user-interfaces-forbusiness-web-applications/>]
* Ten principles of effective web design – Vitaly Friedman [Ref:  
  <http://www.smashingmagazine.com/2008/01/31/10-principles-of-effective-webdesign/>]
* Principles of mobile interface design – Jonathan Stark [Ref:  
  http://www.oreilly.com/pub/e/2144/]

UI-2: The user interface for the software shall be compatible to any browser by which user can access to the system.

UI-3: The web application has to be responsive on multiple devices: laptop, tablet and mobile.

UI-4: The functions on the screen are arranged clearly.

***b.*** ***Software Interfaces***

SI-1: Web application: work with Firefox (v30 or above), Chromes (v14 or above), Internet Explorer (v10 or above) browse.

#### c. Hardware Interfaces

HI-1: The system requires Database to store authentication account, user information or any transaction of the system.

HT-2: Web application: PC, Laptops, mobile with Web browser.

HT-3: The system must run over the internet, all the hardware shall require connect to internet.

#### d. Communications Interfaces

CI-1: The system shall use the HTTP protocol for communication over the internet and for the intranet communication will be through TCP/IP.

### 4.2 Quality Attributes

#### a. Usability

*[This section includes all those requirements that affect usability. For example, specify the required training time for a normal users and a power user to become productive at particular operations specify measurable task times for typical tasks or base the new system’s usability requirements on other systems that the users know and like specify requirement to conform to common usability standards, such as IBM’s CUA standards Microsoft’s GUI standards]*

#### b. Reliability

*[Requirements for reliability of the system should be specified here. Some suggestions follow:*

*Availability—specify the percentage of time available ( xx.xx%), hours of use, maintenance access, degraded mode operations, and so on.*

*Mean Time Between Failures (MTBF) — this is usually specified in hours, but it could also be specified in terms of days, months or years.*

*Mean Time To Repair (MTTR)—how long is the system allowsed to be out of operation after it has failed?*

*Accuracy—specifies precision (resolution) and accuracy (by some known standard) that is required in the system’s output.*

*Maximum Bugs or Defect Rate—usually expressed in terms of bugs per thousand lines of code (bugs/KLOC) or bugs per function-point( bugs/function-point).*

*Bugs or Defect Rate—categorized in terms of minor, significant, and critical bugs: the requirement(s) must define what is meant by a “critical” bug; for example, complete loss of data or a complete inability to use certain parts of the system’s functionality.]*

#### c. Performance

*[The system’s performance characteristics are outlined in this section. Include specific responses times. Where applicable, reference related Use Cases by name.*

*Responses time for a transaction (average, maximum)*

*Throughput, for example, transactions per second*

*Capacity, for example, the number of customers or transactions the system can accommodate*

*Degradation modes (what is the acceptable mode of operation when the system has been degraded in some manner)*

*Resource utilization, such as memory, disk, communications, and so forth.]*

#### d. Dependability

*[Software dependability includes a range of characteristics including reliability, security and safety. Dependable software should not cause physical or economic damage in the event of system failure. Malicious users should not be able to access or damage the system]*

##### d1. Security

*[Specify any requirements regarding security or privacy issues that restrict access to or use of the product. These could refer to physical, data, or software security. Security requirements often originate in business rules, so identify any security or privacy policies or regulations to which the product must conform. If these are documented in a business rules repository, just refer to them.]*

##### d2. Safety

*[Specify requirements that are concerned with possible loss, damage, or harm that could result from use of the product. Define any safeguards or actions that must be taken, as well as potentially dangerous actions that must be prevented. Identify any safety certifications, policies, or regulations to which the product must conform.]*

#### e. Supportability

*[This section indicates any requirements that will enhance the supportability or maintainability of the system being built, including coding standards, naming conventions, class libraries, maintenance access, and maintenance utilities.]*

#### f. Design Constraints

*[This section indicates any design constraints on the system being built. Design constraints represent design decisions that have been mandated and must be adhered to. Examples include software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints, purchased components, class libraries, and so on.]*

#### g. Support Documents

*[Describes the requirements, if any, for o-line user documentation, help systems, help about notices, and so forth.]*

#### h. Purchased Components

*[This section describes any purchased components to be used with the system, any applicable licensing or usage restrictions, and any associated compatibility and interoperability or interface standards.]*

## 5. Other Requirements

*[Examples are: legal, regulatory or financial compliance, and standards requirements; requirements for product installation, configuration, startup, and shutdown; and logging, monitoring and audit trail requirements. Instead of just combining these all under "Other," add any new sections to the template that are pertinent to your project. Omit this section if all your requirements are accommodated in other sections. ]*

### 5.1 Appendix1 - Messages List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Message code** | **Message Type** | **Context** | **Content** |
| 1 | MSG01 | In line | There is not any search result | *No search result.* |
| 2 | MSG02 | In red, under the text box | Input-required fields are empty | *The \* field is required.* |
| 3 | MSG03 | Toast message | Updating asset(s) information successfully | *Update asset(s) successfully.* |
| 4 | MSG04 | Toast message | Adding new asset successfully | *Add asset successfully.* |
| 5 | MSG05 | Toast message | Confirming email of asset hand-over is sent successfully | *A confirmation email has been sent to {email\_address}.* |
| 6 | MSG06 | Toast message | Resetting asset information successfully | *Return asset(s) successfully.* |
| 7 | MSG07 | Toast message | Deleting asset information successfully | *Delete asset(s) successfully.* |
| 8 | MSG08 | In red, under the text box | Input value length > max length | *Exceed max length of {max\_length}.* |
| 9 | MSG09 | In line | Username or password is not correct when clicking sign-in | *Incorrrect user name or password. Please check again.* |

### 5.2 Appendix2 - …

### 5.3 …