

**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 content 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 content diagram or ecosystem map to show the product's relationship to other systems or anything else in the universe.*

*The content 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 content 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 a Salesman. |
| BR-09 | The Salesman can only edit or remove his daily report before day ends. |
|  |  |

## 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 handles the internal processes. |

#### 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, Edit, Remove) | 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 https://f17-zpc.zdn.vn/2368404003870446611/9512f79f93f360ad39e2.jpg

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-01 Login** | | | | | | |
| Created By: |  | | Date Created: | 5/02/2021 | | |
| Primary Actor: | Unauthorized User | | Secondary Actors: | N/A | | |
| Description: | This use case allows the user to log into the system to use service of system. | | | | | | |
| Trigger: | The user clicks on the “Login” button on the Login screen. | | | | | | |
| Preconditions: | PRE-1. The user has to own an account with username and password.  PRE-2. The user has not logged into system yet. | | | | | | |
| Post-conditions: | POST-1. The user successfully logs into the system, and redirects the Home screen. | | | | | | |
| Normal Flow: | **Step** | **Actor Action** | | | **System Response** | | |
| 1 | The user opens the login view via web browsers. | | | The system requires identifying information from The user:   * Username: text input, required * Password: text input, required. | | |
| 2 | The user inputs into The username field and the password field on Login form. | | | [Exception 1] | | |
| 3 | The user clicks on “Login” button. | | | The system allows the user to access into, redirects the Home screen base on the role of user.  [Exception 2]  [Exception 3] | | |
| Alternative Flows: | N/A | | | | | | |
| Exceptions: | **No** | **Cause** | | | | **System Response** | |
| 1 | The user inputs invalid format content into The username and password fields. | | | | The system shows the error message: “Please input the valid username and password”. | |
| 2 | The user inputs the wrong username or password. | | | | The system shows the error message: “Wrong username or password”. | |
|  | 3 | The user’s device does not connect to the Internet or the server has internal error. | | | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal. | | | | | | |
| Frequency of Use: | Approximately 200 users, average of 500 usage per day. Peak usage load for this use case is between 6AM and 10PM local time. | | | | | | |
| Business Rules: | * The required information are username, password. * The username must be 8 – 30 characters, not include special characters. * The password must be 8 – 30 characters and must be hash encrypted. * Time out for login screen is less than 180 seconds. | | | | | | |
| Other Information: | N/A | | | | | | |
| Assumptions: | N/A | | | | | | |

### 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: | N/A | |
| Description: | This use case allows the users view their profile. | | | | | |
| Trigger: | The user selects “Profile” command. | | | | | |
| Preconditions: | PRE-1. The user has been log into system. | | | | | |
| Post-conditions: | POST-1. The user’s information is displayed in details as a form. | | | | | |
| Normal Flow: | **Step** | **Actor Action** | | | **System Response** | |
| 1 | The user clicks on the avatar on the header and selects “Profile” command. | | | The system redirects the “Profile” page. The detail’s information of user is displayed on the screen.  [Exception 1] | |
| Alternative Flows: | N/A | | | | | |
| Exceptions: | **No** | **Cause** | | | **System Response** | |
| 1 | The user’s device does not connect to the Internet or the server has internal error. | | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal. | | | | | |
| Frequency of Use: | Usually | | | | | |
| Business Rules: | N/A | | | | | |
| Other Information: | N/A | | | | | |
| Assumptions: | N/A | | | | | |

#### Edit Profile



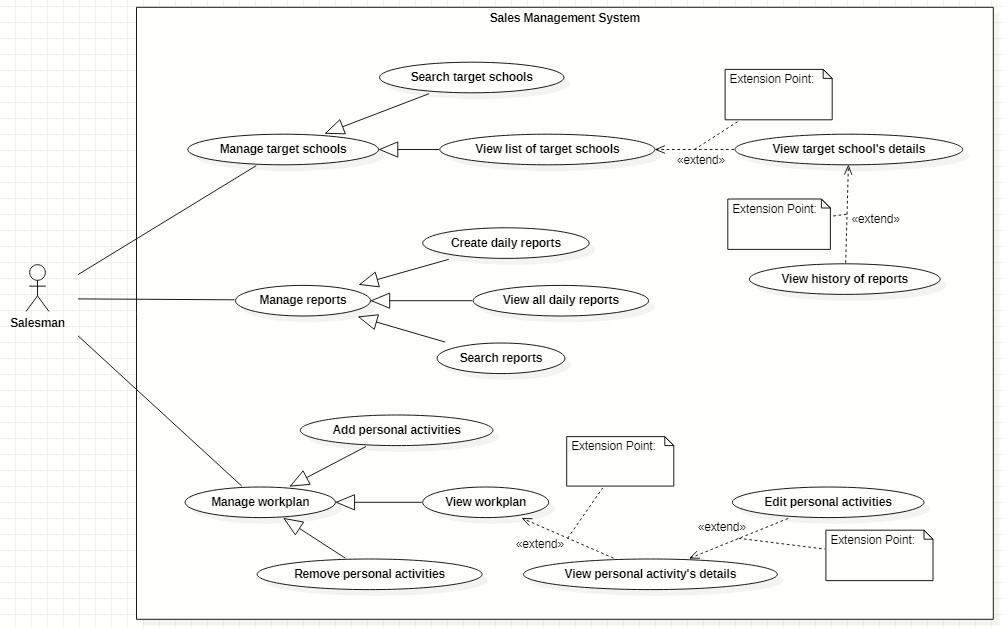
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-03 Edit Profile** | | | | |
| Created By: |  | | Date Created: | | 5/02/2021 |
| Primary Actor: | Authorized User | | Secondary Actors: | | N/A |
| Description: | This use case allows the users edit their profile. | | | | |
| Trigger: | The user selects Edit Profile command. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Profile” screen. | | | | |
| Post-conditions: | POST-1. The user’s information is edited into the system. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | On Profile screen, the user selects “Edit” button on the information row that he wants to edit.  [Alternative 1 ] | | The selected text row changes to the text field with the following format:   * “Password”: text. * “Address”: text. * “Email”: text. * “Birthdate”: date. * “Gender”: two radio buttons, required, only select one. * “Phone” text. * “Avatar”: image. | |
|  | 2 | The user inputs the information into the selected text field. | | [Exception 1]  [Exception 2]  [Exception 3] | |
|  | 3 | The user selects “Save” button. | | The system shows the dialog to request for editing confirmation. | |
|  | 4 | The user selects “Yes” button to confirm updating.  [Exception 4] | | The system shows the successful message: “Done”.  [Exception 5] | |
| Alternative Flows: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “Edit” button at “Password” line. | | The system shows the accordion that contains following information:  -“Current Password”: text, required.  -“New Password”: text, required.  -“Confirm New Password”: text, required.  *Continue to step 2 of Normal Flow*. | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The user inputs invalid format content into fields. | | The system shows the error message: “Please input the valid format content”. | |
|  | 2 | The user inputs the wrong old password. | | The system shows the error message: “Your password is incorrect”. | |
|  | 3 | The user inputs the confirm-new password that does not match to new password. | | The system shows the error message: “You must enter the same password twice in order to confirm it”. | |
|  | 4 | The user selects “No” button to cancel updating. | | The system returns the “Profile” screen. | |
|  | 5 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | High. | | | | |
| Frequency of Use: | Usually. | | | | |
| Business Rules: |  | | | | |
| Other Information: | N/A | | | | |

1. ***Logout***

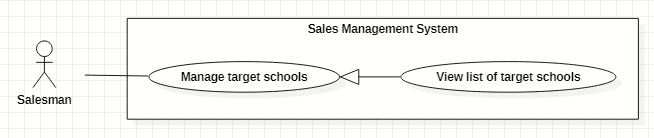


|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-04 Logout** | | | | | |
| Created By: |  | | Date Created: | 5/02/2021 | |
| Primary Actor: | Authorized User | | Secondary Actors: | N/A | |
| Description: | This use case allows the users log out of the system. | | | | | |
| Trigger: | The user selects “logout” command. | | | | | |
| Preconditions: | PRE-1. The user has been log into the system. | | | | | |
| Post-conditions: | POST-1. The user log out the system. | | | | | |
| Normal Flow: | **Step** | **Actor Action** | | | **System Response** | |
| 1 | The user clicks on the avatar on the header and selects the “Logout” command. | | | The system shows the confirm dialog. | |
|  | 2 | The user selects “Yes” to confirm logging out.  [Exception 1] | | | The system returns the “Login” screen.  [Exception 2] | |
| Alternative Flows: | N/A | | | | | |
| Exceptions: | **No** | **Cause** | | | **System Response** | |
| 1 | The user selects “No” button to cancel logging out. | | | The system returns normally working screen. | |
|  | 2 | The user’s device does not connect to the Internet or the server has internal error. | | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal. | | | | | |
| Frequency of Use: | Usually | | | | | |
| Business Rules: | * User’s token is removed in client and the session is destroyed in server. | | | | | |
| Other Information: | N/A | | | | | |
| Assumptions: | N/A | | | | | |

### <<Salesman>> Overview Use Case

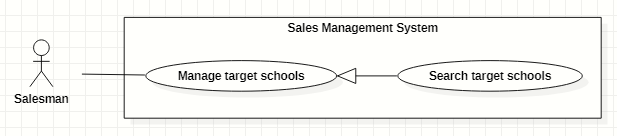


## View List of Target Schools



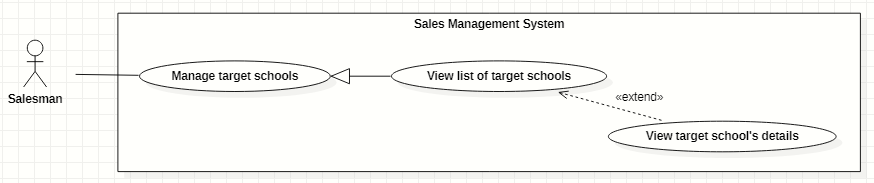
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-05 View List of Target Schools.** | | | | |
| Created By: |  | | Date Created: | | 7/02/2021 |
| Primary Actor: | Salesman, Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to view list of his assigned target schools. | | | | |
| Trigger: | The user selects “Target Schools” command in the side bar. | | | | |
| Preconditions: | PRE-1. The user has been log into system. | | | | |
| Post-conditions: | POST-1. The list of target schools is shown as a table. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects the “Target Schools” command on the sidebar. | | The system redirects to the “Target schools” screen and shows the assigned target schools table with following columns:   * “School Name”: text (hyperlink). * “District”: text. * “Principal”: text. * “Purpose”: text. * “Start Date”: text. * “End Date”: text. * “Status”: text. * “Note”: text. * “Action”: menu list (contains commands: “View details”, “View report”, “Create report”)   [Exception 1]  [Exception 2] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | No stored target schools data in the system. | | The system displays “No data” line on the table. | |
| 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal. | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: |  | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

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



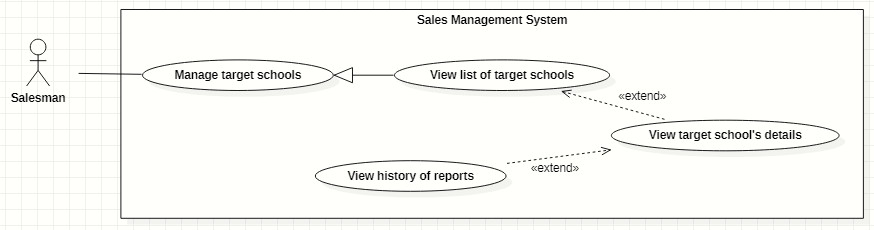
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-06 Search Target Schools** | | | | |
| Created By: |  | | Date Created: | | 7/02/2021 |
| Primary Actor: | Salesman, Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the users find the target schools based on the school name, scale, address, type, … | | | | |
| Trigger: | The user selects “Search Target Schools” command. | | | | |
| Preconditions: | PRE-1. The user has been log into the system.  PRE-2. The user is on the “Target Schools” screen. | | | | |
| Post-conditions: | POST-1. The list of target schools is shown as a table. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user goes to the toolbar on “Target schools” screen. | | The system shows on the toolbar with the following selection filters:  -“School year”: selection items | |
| 1 | The user inputs the search field or selects searching filters on toolbar to find target schools. | | The system displays the list of target schools as a table.  [Exception 1]  [Exception 2] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The content of search field or selecting filter that The user inputted is not matched any stored data in the system. | | The system displays “No data” line on the table. | |
| 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal. | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | * If the search field is blank, the system will show the all assigned target schools of the user. * Default status of all selected filters is “See All”. | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## View Target School’s Details.



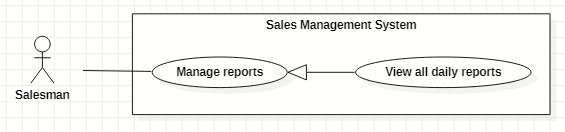
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-07 View Target School’s Details.** | | | | |
| Created By: |  | | Date Created: | | 7/02/2021 |
| Primary Actor: | Salesman, Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to view the detail information of his assigned target schools. | | | | |
| Trigger: | The user selects “Target School’s Details” command. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on “Target Schools” screen. | | | | |
| Post-conditions: | POST-1. The detail information of target school is shown as a form. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
|  | On list of target schools, the user selects “View details” command on the target schools row. | | The system shows “Target School’s Details” view, the target school’s information is displayed as a form with following information:  [Exception 1] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal. | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

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



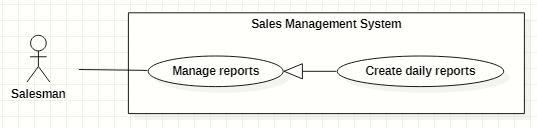
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-08 View History of Reports.** | | | | |
| Created By: |  | | Date Created: | | 7/02/2021 | |
| Primary Actor: | Salesman, Sales Manager | | Secondary Actors: | | N/A | |
| Description: | This use case allows the user to view the reports list of target schools. | | | | |
| Trigger: | The user selects “view history of reports” command in the “Target Schools” screen. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Target Schools” screen. | | | | |
| Post-conditions: | POST-1. The reports list of target school are shown. | | | | |
| Normal Flow: | Step | Actor Action | | System Response | |
|  |  | |  | |
| Alternative Flows: | 1. In the target schools detail screen, the user selects the “view history of report” command.   The system display history of report screen, the report list of target school is displayed. (see **8.0.E1**) | | | | |
| 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: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## 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: | | N/A |
| Description: | This use case allows the user to view the daily report’s list of all Salesman in company. | | | | |
| Trigger: | The user selects the “Reports” command. | | | | |
| Preconditions: | PRE-1. The user has been log into system. | | | | |
| Post-conditions: | POST-1. Report’s list is displayed as the table in “Reports” screen. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects the “Reports” command on the side bar. | | The system displays “Reports” screen, report’s list is displayed as the table. | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | No stored reports data in the system. | | The system displays “No data” line on the table. | |
|  | 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## 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: | | N/A |
| Description: | This use case allows the user to create daily report. | | | | |
| Trigger: | The user selects the “Create” command on “Reports” screen. | | | | |
| Preconditions: | PRE-1. The user has been log into the system.  PRE-2. The user is on the “Reports” screen. | | | | |
| Post-conditions: | POST-1. A new report is created in the system. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects the “Create” button on “Reports” screen.  [Alternative 1] | | The system shows “Create Report” view that contains following information fields:   * “Target Schools”: text, required. * “Date”: text, read only, default is current date. * “Purpose”: contains selections, required. * “Result”: text, required. * “Description”: text, required. * “Positivity”: text. * “Difficulty”: text. * “Solution”: text. | |
|  | 2 | The user inputs the information into the required fields. | |  | |
|  | 3 | The user selects “Create” button to create a new daily report. | | The system shown the successful message: “Done”.  [Exception 1]  [Exception 2] | |
| Alternative Flows: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “Create Report” command on “Target Schools” screen (at UC- 05). Continue to step 2 in Normal Flow. | | The system shows “Create Report” view that contains following information fields:   * “Target Schools”: text, required. * “Date”: text, read only, default is current date. * “Purpose”: contains selections, required. * “Result”: text, required. * “Description”: text, required. * “Positivity”: text. * “Difficulty”: text. * “Solution”: text. | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The user leaves the blank fields. | | The system shows the error message: “Please input the valid format context”. | |
|  | 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | High. | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | * The Salesman is not allowed to create reports for duplicate target schools in a day. | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

***g. Search Reports.***



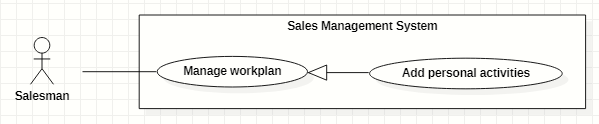
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-11 Search Reports.** | | | | |
| Created By: |  | | Date Created: | | 9/02/2021 |
| Primary Actor: | Salesman, Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to find the reports. | | | | |
| Trigger: | The user selects on the searching command on “Reports” screen. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Reports” screen. | | | | |
| Post-conditions: | POST-1. The list of reports is displayed as the table. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user inputs the search field or select searching filters on toolbar to find reports. | | The system displays the list of reports as the table.  [Exception 1]  [Exception 2] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The content of search field or selecting filter that The user inputted is not matched any stored data in the system. | | The system displays “No data” line on the table. | |
| 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | High | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | * If the search field is blank, the system will show all reports. * Default status of all selected filters is “See All”. | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## 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: | | N/A |
| Description: | This use case allows the user to view the work-plan. | | | | |
| Trigger: | The user selects the “Work-plan” command. | | | | |
| Preconditions: | PRE-1. The user has been log into system. | | | | |
| Post-conditions: | POST-1. The personal activities are displayed in work-plan schedule. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “Work-plan” command on the sidebar. | | The system displays “work-plan” screen. The Work-plan has the personal activity items that present as a schedule  [Exception 1] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | * The system displays the “Work-plan” as a week’s schedule with the activity item is a cell in the schedule. * The activity items have different colors to distinguish based on status. | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

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: | | N/A |
| 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 into 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: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user clicks on “Create” button on the “Work-plan” screen. | | The system displays the “Create Activity” form dialog that contains the following format fields:   * “Title”: text, required. * “Description”: text. * “Remark”: text. * “Start time”: date time, required. * “End time”: date time, required. * “Status”: text, read only, default is “Not yet”. | |
|  | 2 | The user inputs into the information fields. | |  | |
|  | 3 | The user selects the “Save” button. | | The system shows the successful message: “Done”.  [Exception 1]  [Exception 2]  [Exception 3] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Actor Action** | | **System Response** | |
| 1 | The user inputs invalid format content into fields. | | The system shows the error message: “Please input the valid format content”. | |
|  | 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
|  | 3 | The user inputs the “Start time” or the “End time” within the time of another activity item. | | The system shows the error message: “This activity has the same time with another” | |
| Priority: | High. | | | | |
| Frequency of Use: | Usually. | | | | |
| Business Rules: | * “Start time” has the time later than “End time”. * At the time, only activity is existed. | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## 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: | | N/A |
| Description: | This use case allows the user to view the detail information of personal activity. | | | | | |
| Trigger: | The user clicks on the personal activity item on work-plan screen. | | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Work-plan” screen. | | | | | |
| Post-conditions: | POST-1. The detail information of personal activity is shown as a form. | | | | | |
| Normal Flow: | **Step** | **Actor Action** | | | **System Response** | |
| 1 | The user selects any item on work-plan schedule. | | | The system displays “Personal Activity’s Details” view, the personal activity’s information is displayed as a form.  [Exception 1] | |
| Alternative Flows: | N/A | | | | | |
| Exceptions: | **No** | | **Actor Action** | | **System Response** | |
| 1 | | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal | | | | | |
| Frequency of Use: | Usually | | | | | |
| Business Rules: | N/A | | | | | |
| Other Information: | N/A | | | | | |
| Assumptions: | N/A | | | | | |

## 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: | | N/A |
| Description: | This use case allows the user to add new personal activity in his work-plan | | | | |
| Trigger: | The user selects the “Edit Personal Activity” command. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Personal Activity’s Details” view. | | | | |
| Post-conditions: | POST-1. The personal activity is edited information. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects the “Edit” command. | | The system changes the text information to the inputting text fields with the following format content:   * “Title”: text, required. * “Description”: text. * “Remark”: text. * “Start time”: date time, required. * “End time”: date time, required. * “Status”: contains selections. | |
|  | 2 | The user inputs the new content in the fields. | |  | |
|  | 3 | The user clicks “Save” button.  [Exception 1] | | The system responses the successful editing message: “Done”.  [Exception 2]  [Exception 3] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Actor Action** | | **System Response** | |
| 1 | The user selects “No” button to cancel the editing. | | The system returns the “Personal Activity’s Details” screen. | |
| 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| 3 | The user inputs the “Start time” or the “End time” within the time of another activity item. | | The system shows the error message: “This activity has the same time with another” | |
| Priority: | High. | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | * “Start time” has the time later than “End time”. * At the time, only activity is existed. | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

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

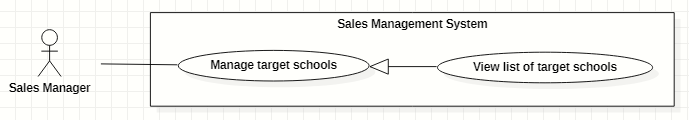


|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-16 Remove Personal Activities** | | | | |
| Created By: |  | | Date Created: | | 11/02/2021 |
| Primary Actor: | Salesman, Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to remove the personal activity in his work-plan | | | | |
| Trigger: | The user selects the “Remove Personal Activity” command. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Personal Activity’s Details” view. | | | | |
| Post-conditions: | POST-1. The personal activity is removed. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “Remove” command on the “Personal Activity’s Details” view. | | The system shows the removing confirmation message. | |
|  | 2 | The user selects “Yes” button to confirm the removing.  [Exception 1] | | The system shows the successful message: “Done”.  [Exception 2] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Actor Action** | | **System Response** | |
| 1 | The user selects “No” button to cancel the removing. | | The system returns the “Personal Activity’s Details” screen. | |
|  | 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal. | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

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

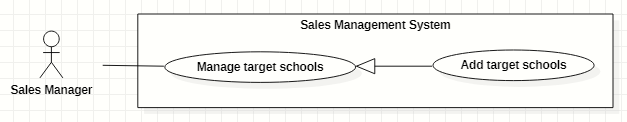
## https://f20-zpc.zdn.vn/1210249421562783260/a0c1fc9b4defbeb1e7fe.jpg

## View List of Target Schools.



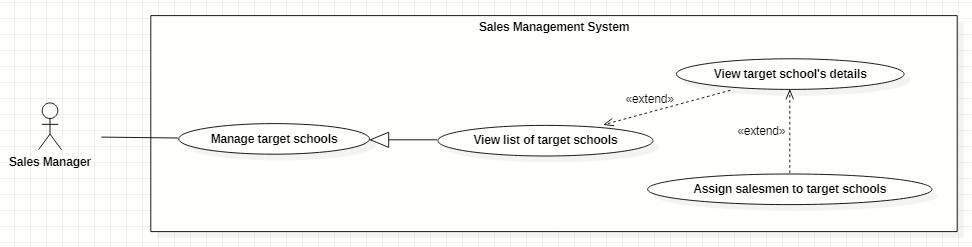
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-17 View List of Target Schools** | | | | |
| Created By: |  | | Date Created: | | 11/02/2021 |
| Primary Actor: | Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to view list of all target schools. | | | | |
| Trigger: | The user selects the “Target schools” command in the sidebar. | | | | |
| Preconditions: | PRE-1. The user has been log into system. | | | | |
| Post-conditions: | POST-1. The list of target schools is displayed as a table in the “Target Schools” screen. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “Target Schools” command on the sidebar. | | The system redirects to “target schools” screen and displays the target schools table following information columns:   * “School Name”: text (hyperlink). * “District”: text. * “Principal”: text. * “Purpose”: text. * “Start Date”: text. * “End Date”: text. * “Status”: text. * “Note”: text. * “Action”: menu list (contains commands: “View details”, “View report”, “Create report”)   [Exception 1]  [Exception 2] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | No stored target schools data in the system. | | The system displays “No data” line on the table. | |
| 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Medium | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## Add Target Schools.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-18 Add Target Schools** | | | | |
| Created By: |  | | Date Created: | | 15/02/2021 |
| Primary Actor: | Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to add new target schools. | | | | |
| Trigger: | The user clicks on the “Add” button on “Target Schools” screen. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Target Schools” screen. | | | | |
| Post-conditions: | POST-1. The new target schools are added in the system. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user clicks on “Add” button in screen. | | The system displays the “Add Target Schools” form with following required information:  -“School Name” rows: with checkbox, required.  -“Purpose”: contains selections.  -“School year”: default is the current year, read only. | |
|  | 2 | The user inputs into the information fields. | |  | |
|  | 3 | The user selects “Save” button. | | The system shows the successful message: “Done”.  [Exception 1]  [Exception 2]  [Exception 3] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The user inputs incorrect format or leaves the blank fields. | | The system shows the error message: “Please input the valid format context” | |
| 2 | The user inputs the “End date” earlier “Start date”. | | The system shows the error message: “Start time has the time later than End time”. | |
| 3 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | High. | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | * Sales Manager can only create the target school at the current school year. | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |
| Assumptions: | N/A | | | | |

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: | | N/A |
| 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 into system.  PRE-2. The user is on the “Target Schools” screen. | | | | |
| Post-conditions: | POST-1. The target schools are assigned to Salesmen. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user ticks on the target school rows that he want to assign and clicks on “Assign” button on screen.  [Alternative 1] | | The system displays the “Assign” form with the following information:  -“Salesman”: text, required.  -“Start date”: date, required, default is current date.  -“End date”: date. | |
| 2 | The user inputs the information into the fields. | |  | |
| 3 | The user selects “Save” button. | | The system shows the successful message: “Done”.  [Exception 1]  [Exception 2] | |
| Alternative Flows: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “Assign” commands on the selected target school row. | | The system displays the “Assign” form with the following information:  -“Salesman”: text, required.  -“Start date”: date, required, default is current date.  -“End date”: date.  *Continue step 2 of Normal Flow* | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The target school has assigned at the same school year. | | The system shows the error message: “The target school has assigned at the same school year”. | |
|  | 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Usually | | | | |
| Frequency of Use: | N/A | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: |  | | | | |

## Remove Target School.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-21 Remove Target Schools.** | | | | |
| Created By: |  | | Date Created: | | 15/02/2021 |
| Primary Actor: | Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to remove the target schools | | | | |
| Trigger: | The user selects the “remove” command on the target school row. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “All Target Schools” screen. | | | | |
| Post-conditions: | POST-1. The target schools are removed out of table. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “remove” command on the selected target school row. | | The system shows the confirmation removing dialog. | |
|  | 2 | The user selects “Yes” to confirm the removing. | | The system responses the successful removing message: “Done”.  [Exception 1 ] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Normal | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## 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: | | N/A |
| Description: | This use case allows the user to remove the target schools | | | | |
| Trigger: | The user selects the “Comment” command. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on the “Reports” screen. | | | | |
| Post-conditions: | POST-1. The comment is added on Salesmen’s reports. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “comment” command on the selected report row.  [Alternative 1] | | The system shows the “Add comment” form. With the following information:  -“Sales Manager’s comment”: text. | |
| 2 | The user inputs information into the text fields. | |  | |
|  | 3 | The user selects “Save” button. | | The system shows successful message: “Done”. | |
| Alternative Flows: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “comment” command on the commented report. | | The system notifies that this report has already commented and confirm to edit. | |
|  | 2 | The user selects “Yes” button. | | The system shows the “Add comment” form. With the following information:  -“Sales Manager’s comment”: text.  *Continue to step 2 Normal Flow.* | |
| Exceptions: | N/A | | | | |
| Priority: | Medium | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## View list of Salesmen.



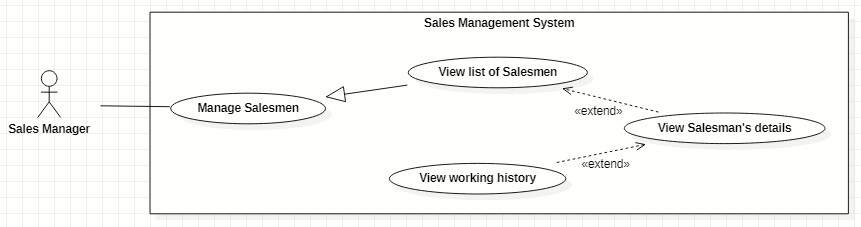
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-23 View List of Salesmen.** | | | | |
| Created By: |  | | Date Created: | | 12/02/2021 |
| Primary Actor: | Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the user to view list of all Salesmen. | | | | |
| Trigger: | The user selects the “Salesmen” command on the sidebar. | | | | |
| Preconditions: | PRE-1. The user has been log into the system. | | | | |
| Post-conditions: | POST-1. The list of Salesmen is displayed as a table in the “Salesmen” screen. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user selects “Salesmen” command on the sidebar. | | The system redirects to “Salesmen” screen and displays list as a table following columns:  -“Name”: text.  -“Phone”: text.  -“Email”: text.  -“Address”: text. | |
| Alternative Flows: | N/A | | | | |
| Exceptions: |  | | | | |
| Priority: | Medium | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## View Salesman’s Details

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

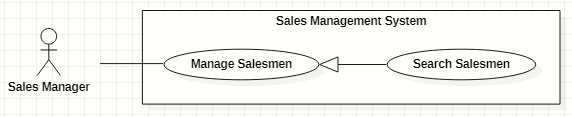
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-24 View Salesman’s Details.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | N/A |
| Description: | This use case allows the user to view the detail information of Salesmen. | | |
| Trigger: | The user clicks on “View detail” button on Salesman row. | | |
| Preconditions: | PRE-1. The user has been log into 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: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

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



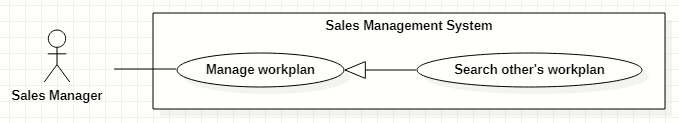
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-25 View Working History.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Sales Manager | Secondary Actors: | N/A |
| Description: | This use case allows the user to view the target list and reports of Salesmen. | | |
| Trigger: | The user selects “Working History” tab in Salesman detail screen. | | |
| Preconditions: | PRE-1. The user has been log into 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 selects 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: | N/A | | |
| 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: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

***j. Search Salesmen.***



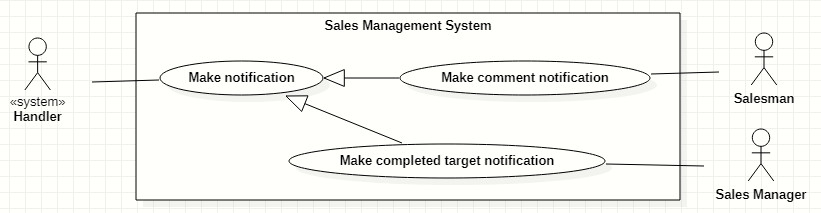
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-26 Search Salesmen** | | | | |
| Created By: |  | | Date Created: | | 15/02/2021 |
| Primary Actor: | Sales Manager | | Secondary Actors: | | N/A |
| Description: | This use case allows the users find the salesmen based on the name, phone, address, gender, … | | | | |
| Trigger: | The user selects “search” command on the “Salesmen”screen. | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on “Salesmen” screen. | | | | |
| Post-conditions: | POST-1. The list of Salesmen is shown. | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | |
| 1 | The user input the search field or select searching filters in toolbar to find Salesmen | | The system displays the list of Salesmen as the table.  [Exception 1]  [exception 2] | |
| Alternative Flows: | N/A | | | | |
| Exceptions: | **No** | **Cause** | | **System Response** | |
| 1 | The content of search field or selecting filter that the user inputted is not matched any stored data in the system. | | The system displays “No data” line on the table. | |
| 2 | The user’s device does not connect to the Internet or the server has internal error. | | The system shows the error message: “Connection Failed or Internal Error”. | |
| Priority: | Medium | | | | |
| Frequency of Use: | Usually | | | | |
| Business Rules: | N/A | | | | |
| Other Information: | N/A | | | | |
| Assumptions: | N/A | | | | |

## Search the other’s Work-plan.

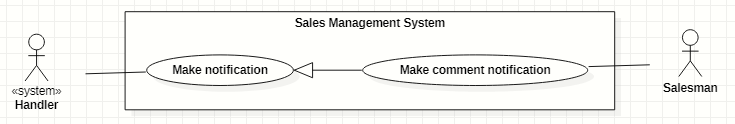


|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID and Name: | **UC-27 Search the other’s work-plan.** | | | | | |
| Created By: |  | | Date Created: | | | 15/02/2021 |
| Primary Actor: | Sales Manager | | Secondary Actors: | | | N/A |
| Description: | This use case allows the users find and track the other’s work-plan | | | | | |
| Trigger: | The user selects “search” command on the “Work-plan” screen. | | | | | |
| Preconditions: | PRE-1. The user has been log into system.  PRE-2. The user is on “work-plan” screen. | | | | | |
| Post-conditions: | POST-1. The other’s work-plan is shown. | | | | | |
| Normal Flow: | **Step** | **Actor Action** | | **System Response** | | | |
| 1 | The user inputs into the search field in “work-plan” screen to find the other’s work-plan. | | The system displays the other’s work-plan as a schedule. | | | |
| Alternative Flows: | N/A | | | | | |
| Exceptions: | **No** | **Cause** | | | **System Response** | | |
| 1 | The content of search field or selecting filter that The user inputted is not matched any stored data in the system. | | | . The system displays “No data” line on the table. | | |
| 2 | The user’s device does not connect to the Internet or the server has internal error. | | | The system shows the error message: “Connection Failed or Internal Error”. | | |
| Priority: | Normal. | | | | | |
| Frequency of Use: | Usually | | | | | |
| Business Rules: | N/A | | | | | |
| Other Information: | N/A | | | | | |
| Assumptions: | N/A | | | | | |

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

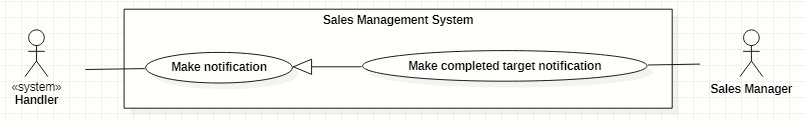


## Make comment notification.



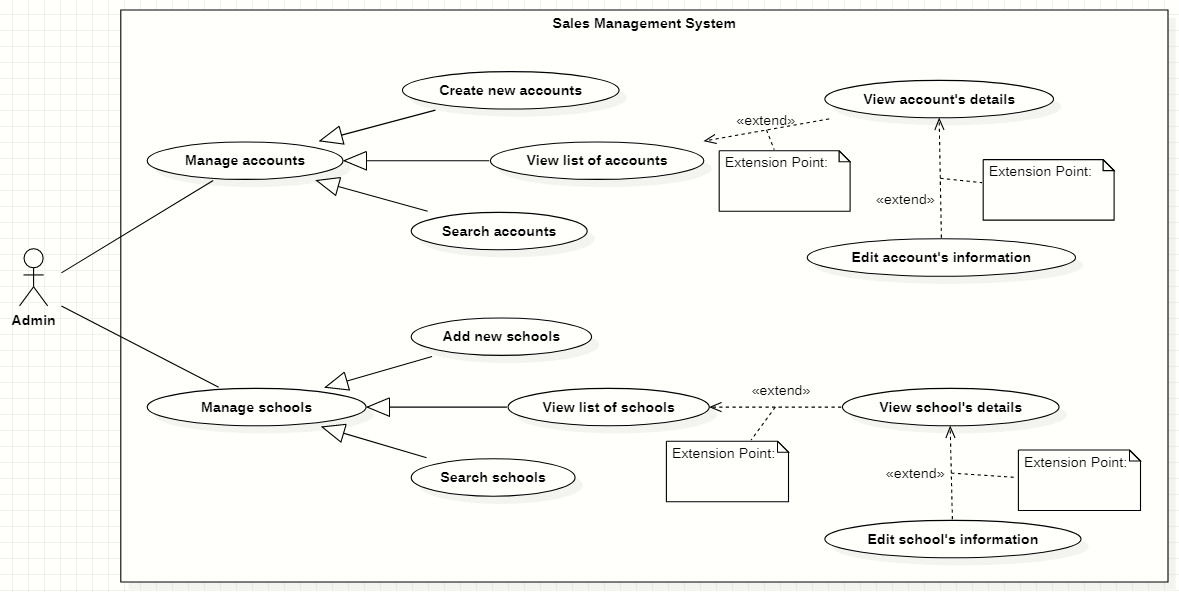
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-28 Make comment notification.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | <<System>> Handle | Secondary Actors: | Salesman |
| Description: | This use case allows the system handler to make comment notification 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: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## Make completed target notification

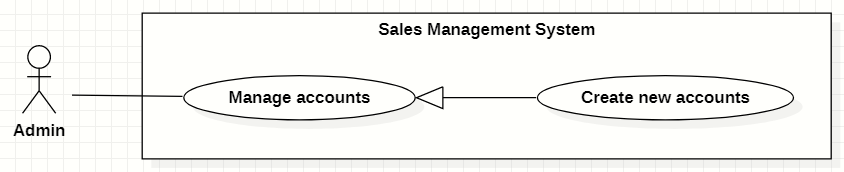


|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-29 Make completed target notification.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | <<system>> Handler | Secondary Actors: | Sales Manager |
| Description: | This use case allows the system handler to make and 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: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## <<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: | N/A |
| 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 into system.  PRE-2. The user is on the “Manage Accounts” screen. | | |
| Post-conditions: | POST-1. The new target schools are added in the system. | | |
| Normal Flow: | 1. **Create New Accounts.** 2. The user selects “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: | N/A | | |
| Exceptions: | **30.0.E1 The user inputs invalid format content into fields.**  1. The system informs The users that the content of fields is invalid format.  2a. The user selects try again command. Return to step 5 Normal Flow.  2b. The user selects 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 content of fields is existed.  2a. The user selects try again command. Return to step 5 Normal Flow.  2b. The user selects 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: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## View List of Accounts



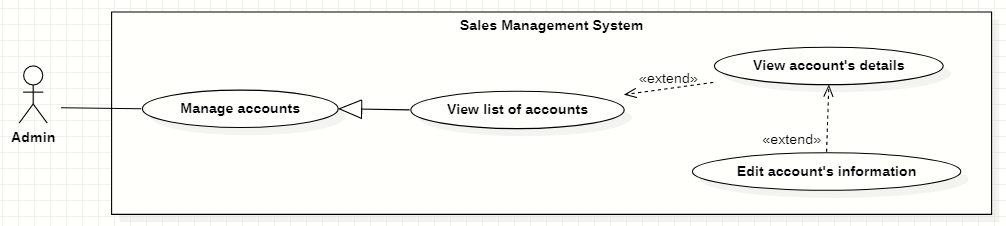
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-31 View List of Accounts.** | | |
| Created By: |  | Date Created: | 15/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This use case allows the user to view accounts list. | | |
| Trigger: | The user selects the “Manage account” in navigator bar. | | |
| Preconditions: | PRE-1. The user has been log into 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 selects “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: | N/A | | |
| 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: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## 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: | N/A |
| 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 into 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 selects “View detail” command. 3. The system displays “Account’s details” view, the Account’s information is displayed as a form. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

1. ***Edit Account’s Information.***



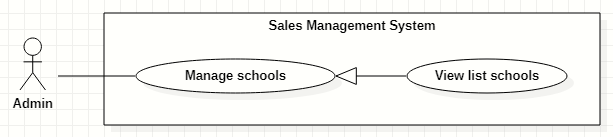
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-33 Edit Account’s Information.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This use case allows the users to edit the account’s information. | | |
| Trigger: | The user selects Edit command in “Account’s details” page. | | |
| Preconditions: | PRE-1. The user has been log into 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 selects “edit” button in the information row that his want to edit. 3. The user input new content 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: | N/A | | |
| Exceptions: | **33.0.E1 The user inputs invalid format content into fields.**  1. The system informs The users that the content of fields is invalid format.  2a. The user selects try again command. Return to step 2 Normal Flow.  2b. The user selects 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 content of fields is existed.  2a. The user selects try again command. Return to step 2 Normal Flow.  2b. The user selects 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: | N/A | | |
| Other Information: | N/A | | |

## Search Accounts.

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

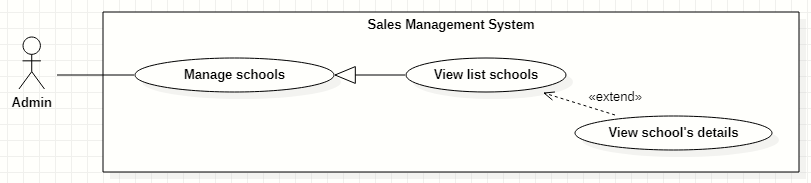
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-34 Search Accounts** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This use case allows the users to find the accounts based on The username, phone, address, … | | |
| Trigger: | The user selects “Search Accounts” command on the “Manage Accounts” screen. | | |
| Preconditions: | PRE-1. The user has been log into 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 intoolbar to find Accounts. 3. The system displays the list of Accounts as the table. (see **34.0.E1**) | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **34.0.E1 The content 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: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## View List of Schools.



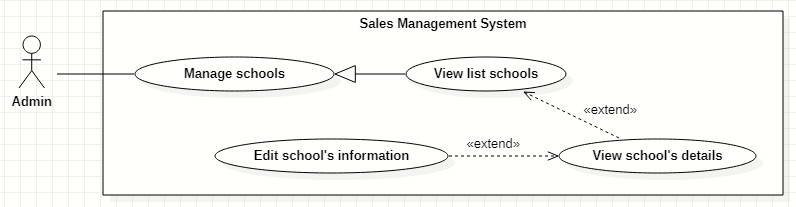
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-35 View list Schools.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This use case allows the user to view schools list. | | |
| Trigger: | The user selects the “Manage Schools” in navigator bar. | | |
| Preconditions: | PRE-1. The user has been log into 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 selects “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: | N/A | | |
| 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: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## 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: | N/A |
| 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 into 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 selects “View detail” command. 3. The system displays “School’s details” view, the School’s information is displayed as a form. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## Edit School’s Information.



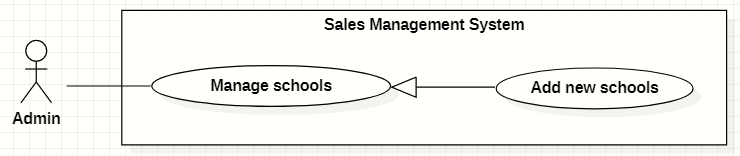
|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-37 Edit School’s Information.** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This use case allows the users to edit the school’s information. | | |
| Trigger: | The user selects Edit command in “School’s details” screen. | | |
| Preconditions: | PRE-1. The user has been log into 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 selects “edit” button in the information row that his want to edit. 3. The user input new content 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: | N/A | | |
| 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 content into fields.**  1. The system informs The users that the content of fields is invalid format.  2a. The user selects try again command. Return to step 3 Normal Flow.  2b. The user selects 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 content of fields is existed.  2a. The user selects try again command. Return to step 3 Normal Flow.  2b. The user selects cancel adding command. The Use case ends. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |

## Search Schools.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-38 Search Schools** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| Description: | This use case allows the users to find the schools based on the name, district, scale, … | | |
| Trigger: | The user selects “Search Schools” command on the “Manage Schools” screen. | | |
| Preconditions: | PRE-1. The user has been log into 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 intoolbar to find Schools. (see **38.0.E1**) 3. The system displays the list of Schools as the table. | | |
| Alternative Flows: | N/A | | |
| Exceptions: | **38.0.E1 The content 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: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## Add New Schools.



|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-39 Add New Schools** | | |
| Created By: |  | Date Created: | 16/02/2021 |
| Primary Actor: | Admin | Secondary Actors: | N/A |
| 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 into 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 selects 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 content into fields.**  1. The system informs The users that the content of fields is invalid format.  2a. The user selects try again command. Return to step 3 Normal Flow.  2b. The user selects 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 content of fields is existed.  2a. The user selects try again command. Return to step 3 Normal Flow.  2b. The user selects 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 selects cancel importing command. The Use case ends.  2b. The user selects 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 selects cancel importing command. The Use case ends.  2b. The user selects try again command. Return to step 5 in the Alternative Flows. | | |
| Priority: | Medium | | |
| Frequency of Use: | Usually | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: | N/A | | |

## 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:

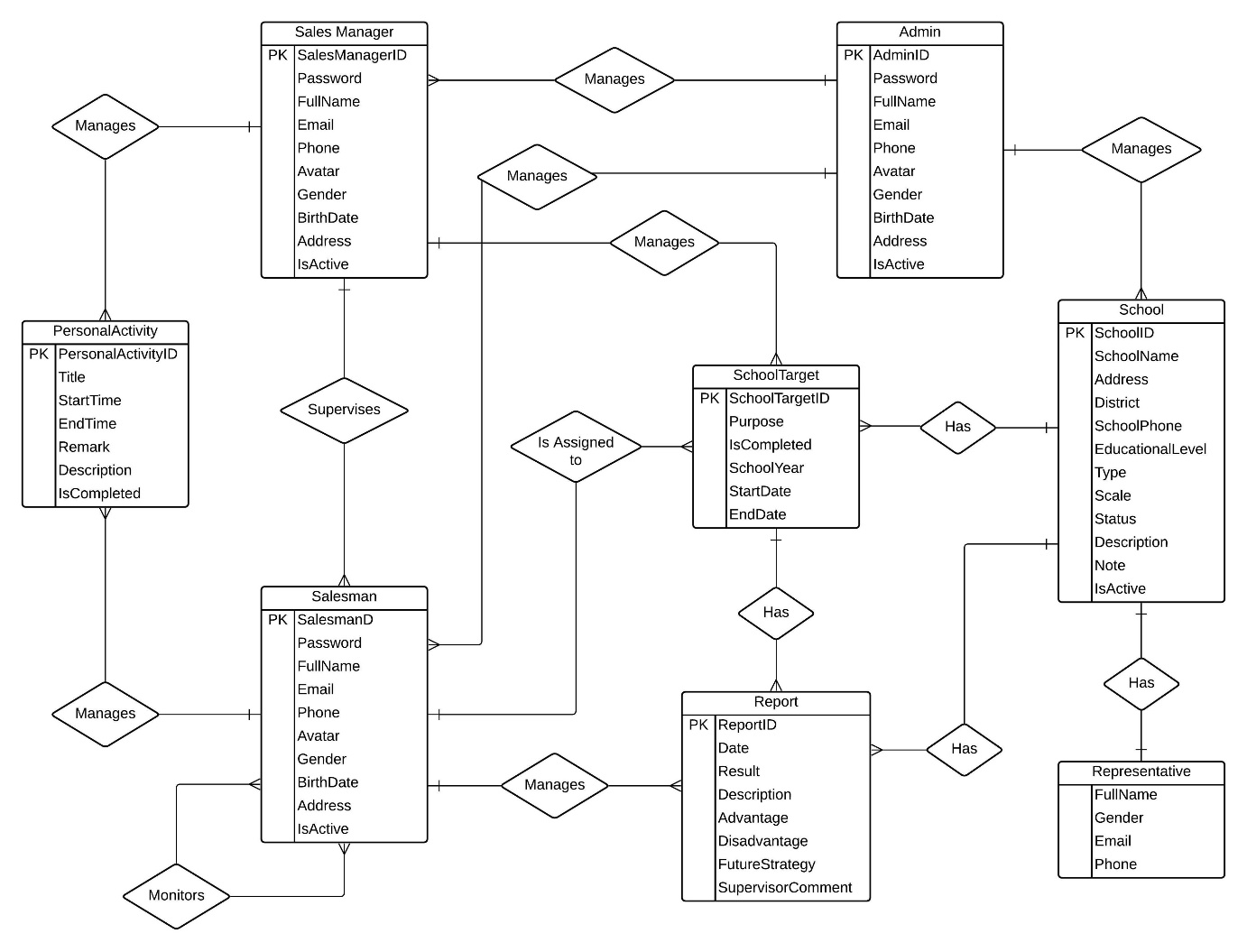
* Role1: <<role1 description>>
* Role2: <<role2 description>>
* …

#### 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: The user interfaces in general should be consistent, simple, clear, intuitive, and reminiscent.

* Some design principles will be taken into consideration: <https://material.io/design/introduction>

UI-2: The user interfaces for the software shall be compatible with: Chrome (version 52 or above), Firefox (version 51 or above), Safari (version 10 or above) browser.

UI-3: The user interfaces should be responsive on multiple screen devices: Laptop, Tablet, and Mobile.

UI-4: The user interfaces should be clear and intuitive message for the users when there is a warning or an error.

UI-5: The user interfaces should ask the users to confirm the action when having major operating actions.

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

SI-1:

#### c. Hardware Interfaces

HT-1: This web application works with: Chrome (version 52 or above), Firefox (version 51 or above), Edge (version 14 or above), Safari (version 10 or above), or Opera (version 38 or above) browser.

HT-2: The system must run over the Internet; all the hardware shall require connect to the Internet.

#### d. Communications Interfaces

CI-1: The system shall communicate through HTTP protocol over the Internet.

### 4.2 Quality Attributes

#### a. Usability

#### - The system is designed simple, and intuitive which the users can easily manage their work.

- The default system language is English.

#### - The system shall take two hours of training for the users to familiar with usage.

#### Availability

- The system is available 24/7.

#### c. Security

- The system demands unauthorized users to log in for using the system.

- Each authentic user has a different role and scope for accessing a set of system functions.

- The password is hashed with BCrypt.

- The password field must be obscured with special characters representing typed characters.

- The active session time for this system is two hours, after that the user shall be demanded to log in again.

#### d. Maintainability

- The source code should be based on a unified convention coding so that developers can easily manage.

- The system is divided into separate components and modules which giving the ability to update or scale up the system.

## 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** | **Content** | **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 …