

**STOPIC**

-CanTho, July 2022-

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# Introduction

## Purpose:

## Document conventions:

## Intended audience and reading suggestions:

## Project scope:

## References:

# Overall Description

## Product perspective:

## Product functions:

### Public functions:

|  |  |
| --- | --- |
|  |  |

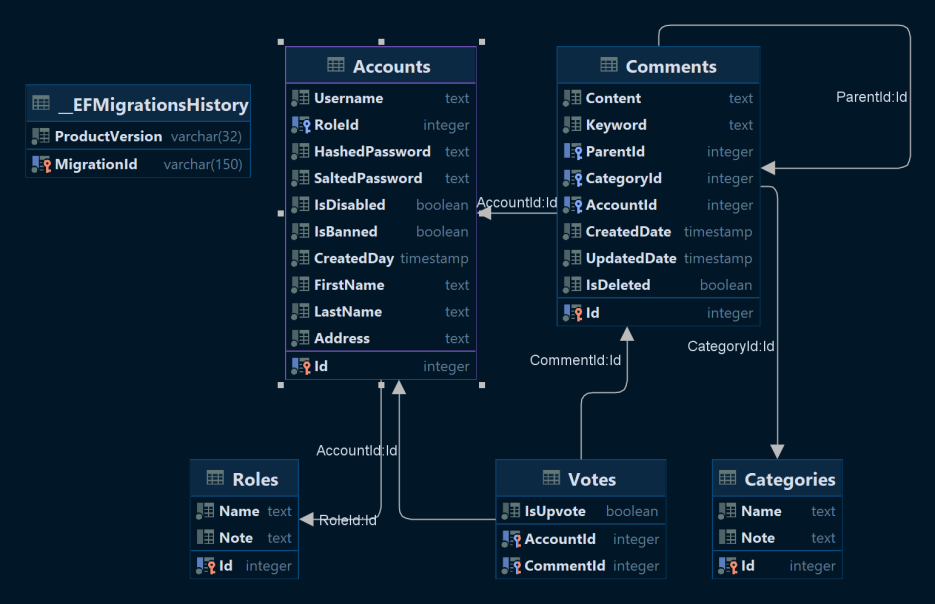
### Users functions:

|  |  |
| --- | --- |
| 1. Login 2. Get Comment |  |

### Admin functions:

|  |  |
| --- | --- |
| 1. Login |  |

## Product features: SQL diagram



## Use case diagram:

## Use case specification: (UC table)

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-1 Login** | | |
| Created By: | Nguyen Dang Khoa | Created Date: | 6/7/2022 |
| Primary Actor: | Users, Admin | Secondary Actors: |  |
| Description: | A method allows users to login into the system and perform some functions . | | |
| Trigger: | A method indicates that user wants to login into the system and already have an account. | | |
| Preconditions: | PRE-1. User accessed the login page.  PRE-2. User already has an account.  PRE-3. The user's device has a network connection. | | |
| Postconditions: | POST-1. User login successfully.  POST-2. The system notify to the User. | | |
| Normal Flow: | 1. The user accesses the login page. 2. The user input their account information. 3. The system validates the credentials successfully and allows the user to access the application. 4. The system notify to the User. | | |
| Alternative Flows: | None | | |
| Exceptions: | 3a. The system validates the login failed and displays a message.  3a1. The user chooses to cancel the login.  *(Use Case stop)*  3b. The user chooses Forget password.  *Use Case continue to Use Case UC-3*  3c. The user chooses Register  *Use Case continue to Use Case UC-2* | | |
| Priority: | High | | |
| Business Rules: | BR-1, BR-4, BR-8, BR-9, BR-10 | | |
| Non-function: | 1. User password must be hashed by HMACSHA1. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC-2 Register Account** | | |
| Created By: | Nguyen Dang Khoa | Created Date: | 6/7/2022 |
| Primary Actor: | Public | Secondary Actors: |  |
| Description: | A method allows users to register an account. | | |
| Trigger: | A method indicates that he/she wants to register an account. | | |
| Preconditions: | PRE-1. User accessed the register page.  PRE-2. User fills in the correct account information.  PRE-3. The user's device has a network connection. | | |
| Postconditions: | POST-1. User registered successfully.  POST-2. System will check the input account infomation.  POST-3. The system notify to the User. | | |
| Normal Flow: | 1. The user accesses the register page. 2. The user input their account information. 3. The system validates the information successfully. 4. The system notify to the User. | | |
| Alternative Flows: | None | | |
| Exceptions: | 3a. The system validates the register failed and displays a message.  3a1. The user chooses to cancel the register.  *(Use Case stop)*  3b. The user chooses Login.  *Use Case continue to Use Case UC-1* | | |
| Priority: | High | | |
| Business Rules: | BR-2, BR-3, BR-4, BR-8, BR-9, BR-10, BR-14 | | |
| Non-function: | 1. User password must be hashed by HMACSHA1. | | |

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| --- | --- | --- | --- |
| ID and Name: | **UC- Get comment** | | |
| Created By: | Cao Hoang Anh Uy | Created Date: | 6/7/2022 |
| Primary Actor: | Public, Users | Secondary Actors: |  |
| Description: | A method allows users to view comment lists. | | |
| Trigger: | A method indicates that he/she wants to view a comment list. | | |
| Preconditions: | PRE-1. User accessed the comment list page.  PRE-2. The user's device has a network connection. | | |
| Postconditions: | POST-1. Application load comment list. | | |
| Normal Flow: | 1. The user accesses the comment list page. 2. Client requests the comment list from the server. 3. Server return the comment list to client. | | |
| Alternative Flows: | None | | |
| Exceptions: | 2a. Request Timeout\_the server didn't receive a complete request message within the server's allowed timeout period. | | |
| Priority: | High | | |
| Business Rules: | BR-6, BR-8, BR-9, BR-10 | | |
| Non-function: |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC- Get comment by id** | | |
| Created By: | Cao Hoang Anh Uy | Created Date: | 6/7/2022 |
| Primary Actor: | Public, Users | Secondary Actors: |  |
| Description: | A method allows users to view comments by it’id. | | |
| Trigger: | A method indicates that he/she wants to view a comment form comment list. | | |
| Preconditions: | PRE-1. User accessed the comment page.  PRE-1. User selects comment from comment list  PRE-2. The user's device has a network connection. | | |
| Postconditions: | POST-1. Application load comment by it’id. | | |
| Normal Flow: | 1. The user accesses the comment list page. 2. User selects comment from comment list 3. Client requests the comment by it’id from the server. 4. Server returns the comment to client. | | |
| Alternative Flows: | None | | |
| Exceptions: | 2a. Request Timeout\_the server didn't receive a complete request message within the server's allotted timeout period. | | |
| Priority: | High | | |
| Business Rules: | BR-6, BR-8, BR-9, BR-10 | | |
| Non-function: |  | | |

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| --- | --- | --- | --- |
| ID and Name: | **UC- Get comment by Category id** | | |
| Created By: | Cao Hoang Anh Uy | Created Date: | 6/7/2022 |
| Primary Actor: | Public, Users | Secondary Actors: |  |
| Description: | A method allows users to view comments by its category. | | |
| Trigger: | A method indicates that he/she wants to view a comment form a comment list by specific category. | | |
| Preconditions: | PRE-1. User accessed the comment list page.  PRE-1. User selects comment category from comment list  PRE-2. The user's device has a network connection. | | |
| Postconditions: | POST-1. Application load comment by its category. | | |
| Normal Flow: | 1. The user accesses the comment list page. 2. User selects the comment category from the comment list. 3. Client requests the comment by its category id from the server. 4. Server returns the comment to client. | | |
| Alternative Flows: | None | | |
| Exceptions: | 2a. Request Timeout\_the server didn't receive a complete request message within the server's allotted timeout period. | | |
| Priority: | High | | |
| Business Rules: | BR-6, BR-8, BR-9, BR-10 | | |
| Non-function: |  | | |

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| ID and Name: | **UC- Get comment by Parent id** | | |
| Created By: | Cao Hoang Anh Uy | Created Date: | 6/7/2022 |
| Primary Actor: | Public, Users | Secondary Actors: |  |
| Description: | A method allows users to view comments by its category. | | |
| Trigger: | A method indicates that he/she wants to view a child comment form a parent comment. | | |
| Preconditions: | PRE-1. User accessed the comment page.  PRE-2. The user's device has a network connection. | | |
| Postconditions: | POST-1. Application load comment by its parent. | | |
| Normal Flow: | 1. The user accesses the specific comment page. 2. Client requests the comment by its parent id from the server. 3. Server returns the comment to client. | | |
| Alternative Flows: | None | | |
| Exceptions: | 2a. Request Timeout\_the server didn't receive a complete request message within the server's allotted timeout period. | | |
| Priority: | High | | |
| Business Rules: | BR-6, BR-8, BR-9, BR-10 | | |
| Non-function: |  | | |

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| --- | --- | --- | --- |
| ID and Name: | **UC- Add comment** | | |
| Created By: | Cao Hoang Anh Uy | Created Date: | 6/7/2022 |
| Primary Actor: | Users | Secondary Actors: |  |
| Description: | A method allows users to add new comments to the comment list or child comment list. | | |
| Trigger: | A method indicates that he/she wants to add a comment on the comment list or child comment list. | | |
| Preconditions: | PRE-1. User accessed the comment list page or comment page.  PRE-2. Users must be logged in.  PRE-3. Users fill correct comment content.  PRE-4. The user's device has a network connection. | | |
| Postconditions: | POST-1. Application add comment into comment list or child comment list. | | |
| Normal Flow: | 1. The user accesses the comment list page or comment page. 2. The user fill in comment content and hit submit button 3. Client requests to add the comment to the server. 4. The server returned the successfully added comment | | |
| Alternative Flows: | None | | |
| Exceptions: | 2a. Request Timeout\_the server didn't receive a complete request message within the server's allotted timeout period.  2b. The user is not logged in.  3a. The comment information entered is not valid. | | |
| Priority: | High | | |
| Business Rules: | BR-5, BR-8, BR-9, BR-10 | | |
| Non-function: |  | | |

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| --- | --- | --- | --- |
| ID and Name: | **UC- Update comment** | | |
| Created By: | Cao Hoang Anh Uy | Created Date: | 6/7/2022 |
| Primary Actor: | Users | Secondary Actors: |  |
| Description: | A method allows users to update existing comments from the comment list or child comment list. | | |
| Trigger: | A method indicates that he/she wants to update a comment from the comment list or child comment list. | | |
| Preconditions: | PRE-1. User accessed the comment list page or comment page.  PRE-2. Users must be logged in.  PRE-3. Updated comments must exist.  PRE-4. Updated comments must belong to the user.  PRE-5. Users fill correct comment content.  PRE-6. The user's device has a network connection. | | |
| Postconditions: | POST-1. Application update comment into comment list or child comment list. | | |
| Normal Flow: | 1. The user accesses the comment list page or comment page. 2. the user selects a comment to update and hits the update button. 3. The user fill in comment content and hit submit button 4. Client requests to update the comment to the server. 5. The server returned the successfully updated comment | | |
| Alternative Flows: | None | | |
| Exceptions: | 2a. Request Timeout\_the server didn't receive a complete request message within the server's allotted timeout period.  4a. The comment information entered is not valid.  4b. The comment did not exist.  4c. The comment did not belong to the logged user. | | |
| Priority: | High | | |
| Business Rules: | BR-5, BR-8, BR-9, BR-10, BR-11 | | |
| Non-function: |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| ID and Name: | **UC- Delete comment** | | |
| Created By: | Cao Hoang Anh Uy | Created Date: | 6/7/2022 |
| Primary Actor: | Users | Secondary Actors: |  |
| Description: | A method allows users to delete existing comments away from the comment list or child comment list. | | |
| Trigger: | A method indicates that he/she wants to delete a comment away from the comment list or child comment list. | | |
| Preconditions: | PRE-1. User accessed the comment list page or comment page.  PRE-2. Users must be logged in.  PRE-3. Deleted comments must exist.  PRE-4. Deleted comments must belong to the user.  PRE-5. The user's device has a network connection. | | |
| Postconditions: | POST-1. Application delete comment from comment list or child comment list. | | |
| Normal Flow: | 1. The user accesses the comment list page or comment page. 2. the user selects a comment to delete and hits the delete button. 3. Client requests to delete the comment to the server. 4. The server returned the successfully deleted comment | | |
| Alternative Flows: | None | | |
| Exceptions: | 2a. Request Timeout\_the server didn't receive a complete request message within the server's allotted timeout period.  3a. The comment information entered is not valid.  3b. The comment did not exist.  3c. The comment did not belong to the logged user. | | |
| Priority: | High | | |
| Business Rules: | BR-5, BR-8, BR-9, BR-10, BR-11 | | |
| Non-function: |  | | |

# System features

## Functional requirements:

* + 1. Business rules:
       - …
       - …
    2. Transaction corrections, adjustments, and cancellations:  
       *These requirements examine every transaction’s entry, changing, deleting, canceling, and error checking.*
    3. Authentication functions:  
       They concern the information users share with the system and their authentication level.
    4. Authorization levels:  
       These functions determine various system access levels and decide who can CRUD (change, read, update, or delete) information.
    5. Searching/reporting requirements:  
       This section of requirements will tell you how users can search and retrieve data.
    6. Compliance, legal, or regulatory requirements   
       These are laws, regulations from the government, and even internal policies that the organizations and their systems must follow.

# Non-Function Features

## Performance requirements:

## Safety requirements:

## Security requirements:

## Software quality attributes: