Courses Roadmap

Use-Case Specification

Version 2.0

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 13/11/2021 | 1.0 | First Use-case specification | Ngo Huy Anh |
| 19/11/2021 | 1.1 | Fix Use-case model | Phung Anh Khoa |
| 20/11/2021 | 1.2 | Fix Use-case specification | Ngo Huy Anh |
| 27/11/2021 | 2.0 | Use-case specification revised | Ngo Huy Anh |

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# Use-case Model

Diagram

Description automatically generated

[Link Drawio](https://app.diagrams.net/#G1lzqcdCfrSaSdY8TZXiK1Ew6EDT_YO1OF)

# Use-case Specifications

## Use-case: Register Account

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap01 |
| Name | Register Account |
| Brief Description | User fills in the following form to create an account |
| Actor | Users |
| Pre-conditions | * Enabled for unauthenticated user only * Users must open web browser and access to Courses Roadmap |
| Post-conditions | * Successfully creating a new account at the server * A notification will be sent to the user's mailbox |
| Scenario | 1. System will listen to user events and then display the sign up screen. 2. User fills in the following form on the Sign up screen 3. User validates information then clicks the “Sign up” Button 4. System will send all information to the Server 5. Server will respond on the sign up screen and send a notification to the user’s mailbox. 6. Return to the Login Screen |
| Alternative flow | * If the server time out. Response failed, show “ERROR” to give the user more information * If there is any blank field, the User cannot come to the Main screen. Show “ERROR” to give more information * If the Password and Re-enter Password are different, the user cannot create an account * If the username existed, the user cannot create an account, show “ERROR” to give the user more information |
| Special Requirement | * Server response to the user less than 4 second |
| Extensions points | * On this page, user could cancel to go to "Login" UC or Home page. |

## Use-case: Sign in

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap02 |
| Name | Sign in |
| Brief Description | User fills username, password. Then the system will check and decide login success or not. |
| Actor | Users |
| Pre-conditions | Users must have an account in the server before |
| Post-conditions | * Successfully logging in to the app * Username will be displayed on the top navbar |
| Scenario | 1. System will listen to user events and then display the sign in screen. 2. User fill username, password 3. User clicks the Login Button 4. System will send username and password to the server then validate it 5. Server will respond on the sign in screen 6. Login success, user comes to Main screen of Courses Roadmap |
| Alternative flow | * If the server time out. Response failed, show “ERROR” to give the user more information * If username, password don't exist, the User cannot come to the Main screen. Show “ERROR” to give more information * If the user hasn’t logged out, the web may keep the sign in session in about 10 minutes |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to go to Home page. |

## Use-case: Log out

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap03 |
| Name | Log out |
| Brief Description | User logs out of the system |
| Actor | Users |
| Pre-conditions | Users must have logged already |
| Post-conditions | * User logout successfully * Username will be removed from the top navigation bar |
| Scenario | 1. System will listen to user events 2. User clicks on the “Information” icons at the left navigation 3. User clicks on the “Log out” button 4. System will send a message asking "Are you sure you want to log out?" then it shows 2 selections: "OK" or "Cancel" 5. User clicks on the “OK” button 6. The account will be logged out of server 7. System will come to the sign in screen |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information * If user clicks on the “Cancel button”, back to the “Setting screen” |
| Special Requirement | * Server response to the user less than 6 second |
| Extensions points | * On this page, user could cancel to go to Home page. |

## Use-case: Change password

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap04 |
| Name | Change password |
| Brief Description | User fills old password, new password to change the current password. |
| Actor | Users |
| Pre-conditions | Users must have logged already |
| Post-conditions | * User password has been changed * Server will response a notification |
| Scenario | 1. System will listen to user events 2. Users click to the “information” icon at the left navigation 3. Users click to “Change password” in User profile 4. Users fill in an old password, a re-enter password and a new password. 5. Click change button 6. System will send the old password and the new password to the server. 7. Server will response a notification. If the system responds successfully, go to step 7; otherwise, return to step 3 8. The password has been changed |
| Alternative flow | * If the server time out. Response failed, show “ERROR” to give more information * If the password is not correct. Users cannot change a password. Show “ERROR” to give more information * If the password and re-enter password are different, the user cannot change password. Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to go to Home page. |

## Use-case: Forgot password

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap05 |
| Name | Forgot password |
| Brief Description | Users click to “Forgot password” button and receive a request to change their password in Google Mail |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must have an account in the server before |
| Post-conditions | * Users receive a request to change their password in Google Mail * Server will response a notification |
| Scenario | 1. System will listen to user events 2. Users click the “Forgot password” button at sign in form 3. Users fill in an user google mail 4. Click “Send” 5. System sends the mail to the server and validate it 6. Server responses a notification into user’s google box mail 7. Users click on the hyperlink, then fill in the new password 8. User password has been changed |
| Alternative flow | * If the server time out. Response failed, show “ERROR” to give more information * If the password is not correct. Users cannot change a password. Show “ERROR” to give more information * If the password and re-enter password are different, the user cannot change password. Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 10 second |
| Extensions points | * On this page, user could cancel to go to Home page. |

## Use-case: View user’s profile

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap06 |
| Name | View user’s profile |
| Brief Description | Users can view your information by click to information icon at the left navigation |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must have logged already |
| Post-conditions | Users can view all information of user |
| Scenario | 1. Click the user icon at the left navigation 2. System change to User information Screen 3. System send request to Server to get user information 4. Server will respond 5. Information of user show in box |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: View other user’s profile

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap07 |
| Name | View other user’s profile |
| Brief Description | Users can view each other's information by click to Username of them |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must have logged already and Users who be clicked must set privacy access to “public” |
| Post-conditions | Users can view all information of other user |
| Scenario | 1. Click the username of other users 2. System send request to Server to get user information 3. Server will respond 4. System redirect “user screen” to view information of other users |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Write story

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap08 |
| Name | Write story |
| Brief Description | Users can write their stories about the studying process, some useful resources, or new technology that they have just used by click to story icon at the left navigation |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must have logged already |
| Post-conditions | Stories is created by users |
| Scenario | 1. Click the story icon at the left navigation 2. System send request to Server to get story page 3. Server will respond 4. System redirect “story page” to view information of other users 5. Users could write stories in the box at the bottom of the page 6. The system makes a request to the server, informing it that the user has commented in the course, and sends it to the **manager’s waiting validated box** |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Relate to User & Courses

## Use-case: View course

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap9a |
| Name | View course |
| Brief Description | Users can view the course. |
| Actor | Users |
| Pre-conditions | * Enabled for unauthenticated user only * Users must open web browser and access to Courses Roadmap |
| Post-conditions | Users can view the course and share it on Facebook |
| Scenario | 1. Click on the course of any roadmaps 2. System send request to Server to get the course page 3. Server will respond 4. System redirect “user screen” to view information of the course |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Share a course to facebook

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap9b |
| Name | Share a course to facebook |
| Brief Description | Users can share a course to facebook |
| Actor | Users |
| Pre-conditions | * Enabled for unauthenticated user only * Users must open web browser and access to Courses Roadmap |
| Post-conditions | Users can view the course and share it on Facebook |
| Scenario | 1. Click on the course of any roadmaps 2. System send request to Server to get the course page 3. Server will respond 4. System redirect “user screen” to view information of the course 5. Click on the “facebook” icon in the courses page 6. System navigates to the news feeds of a user's Facebook |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Subscribe course

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap9c |
| Name | Subscribe course |
| Brief Description | Users can subscribe course |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must open web browser and access to Courses Roadmap |
| Post-conditions | Users can view the course and subscribe it |
| Scenario | 1. Click on the course of any roadmaps 2. System send request to Server to get the course page 3. Server will respond 4. System redirect “user screen” to view information of the course 5. Click on the “subcribe course” button in the courses page 6. The system makes a request to the server informing it that the user has enrolled in the course and navigates to the course material |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Post review

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap9d |
| Name | Post review |
| Brief Description | Users can post review |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must have completed the course |
| Post-conditions | Users can view the course and post reviews of it |
| Scenario | 1. Click on a course that has been completed 2. System send request to Server to get the course page 3. Server will respond 4. System redirect “user screen” to view information of the course 5. Click on the comment box on the courses page, then write your review and submit it 6. The system makes a request to the server, informing it that the user has commented in the course, and sends it to the **manager’s waiting validated box** |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Chatting with Admin

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap10 |
| Name | Chatting with Admin |
| Brief Description | Users can chat with the Admin |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must have logged already |
| Post-conditions | Users can chat with the Admin. |
| Scenario | 1. Click on the connect icon on the page About Us 2. System navigates to the messenger of Admin |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Search topic

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap11 |
| Name | Search topic |
| Brief Description | Users can search topic of the course or roadmap |
| Actor | Users |
| Pre-conditions | * Enabled for authenticated user only * Users must open web browser and access to Courses Roadmap |
| Post-conditions | Users can search topic of the course or roadmap |
| Scenario | 1. Click on the "search" icon on the top of the page, then type in some keywords 2. System filters topics that are related to the search result |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information |
| Special Requirement | * Server response to the user less than 7 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Select theme UC

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap12 |
| Name | Select theme UC |
| Brief Description | Users can switch between dark and light mode |
| Actor | Users |
| Pre-conditions | * Enabled for unauthenticated user only * Users must open web browser and access to Courses Roadmap |
| Post-conditions | The web page has been switched to dark theme or light theme |
| Scenario | 1. Click on the toggle dark mode in the top of the page 2. The web page has been switched to dark mode or light mode |
| Alternative flow |  |
| Special Requirement |  |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Scroll back to top button

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap13 |
| Name | Scroll back to top button |
| Brief Description | Users can Scroll back to top when using this button. |
| Actor | Users. |
| Pre-conditions | * Enabled for authenticated user only * Users must open web browser and access to Courses Roadmap |
| Post-conditions | The web page has scrolled back to the top |
| Scenario | 1. User clicks on the “Scroll back to top” button at the left of the page. 2. The web page has scrolled back to the top. |
| Alternative flow |  |
| Special Requirement |  |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Relate to Admin

## Use-case: Ban users

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14a |
| Name | Ban users |
| Brief Description | Admin can ban any user if they have inappropriate comments or activities. |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | User has been banned |
| Scenario | 1. Click to the username of other users. 2. System send request to Server to get user information 3. Server will respond. 4. System redirect “admin screen” to view information of other users. 5. Click to the ban icon 6. System send request to Server to ban user. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Set roles

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14b |
| Name | Set roles |
| Brief Description | Admin can set roles for any user |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | User has been change to other roles. |
| Scenario | 1. Browse Admin page 2. Under the “set roles” tag, choose user that Admin want to set a new role 3. Choose new role then submit it 4. System post new message to Server to save to database. 5. If the server saves successfully, the server will respond by popping up a message. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: View information of all

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14c |
| Name | Show other’s information |
| Brief Description | Admin can view each other's information by click to Username of them |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | Admin can view all information of other user |
| Scenario | 1. Click the username of other users. 2. System send request to Server to get user information 3. Server will respond. 4. System redirect “user screen” to view information of other users. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 3 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Create courses

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14d |
| Name | Create courses |
| Brief Description | Admin can create new courses |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | The new course has been created |
| Scenario | 1. Browse Admin page 2. At the bottom of the page, under the catalog tag, fill in all the information for new courses, then submit it. 3. System post new message to Server to save to database. 4. If the server saves successfully, the server will respond by popping up a message. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 5 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Delete courses

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14e |
| Name | Delete courses |
| Brief Description | Admin can delete a course |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | The course has been deleted |
| Scenario | 1. Browse Admin page 2. In the middle of the page, under the course tag, search for the course that Admin want to delete, then click on the delete button. 3. System post new message to Server to save to database. 4. If the server saves successfully, the server will respond by popping up a message. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 5 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Edit courses

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14f |
| Name | Edit courses |
| Brief Description | Admin can edit a course |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | The course has been edited |
| Scenario | 1. Browse Admin page 2. In the middle of the page, under the course tag, search for the course that Admin want to edit, fill in all the information for new courses then submit it. 3. System post new message to Server to save to database. 4. If the server saves successfully, the server will respond by popping up a message. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 5 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Create Roadmap

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14g |
| Name | Create courses |
| Brief Description | Admin can create new roadmap |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | New courses have been created |
| Scenario | 1. Browse Admin page 2. At the bottom of the page, under the “catalog” tag, fill in all the information for new roadmap, then submit it. 3. System post new message to Server to save to database. 4. If the server saves successfully, the server will respond by popping up a message. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 5 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |

## Use-case: Validate stories, reviews and comments

|  |  |
| --- | --- |
| Use case ID | Courses\_Roadmap14h |
| Name | Validate stories, reviews and comments |
| Brief Description | Admin can validate stories, reviews and comments |
| Actor | Admin |
| Pre-conditions | * Enabled for authenticated admin only * Admin must have logged already |
| Post-conditions | Stories, reviews and comments have been accepted |
| Scenario | 1. Browse Pending page 2. Under the “Stories” / “Reviews” / “Comments” tag. Click on the “tick” button if admin accept user’s story / review /comment, otherwise click on the “slash” button 3. System post new message to Server to save to database. 4. If the server saves successfully, the server will respond by popping up a message. |
| Alternative flow | * If the server time out. Response failed, Show “ERROR” to give more information. |
| Special Requirement | * Server response to the user less than 5 second |
| Extensions points | * On this page, user could cancel to stay on the previous page |