**Use Cases**

**for**

**Online Tutoring**

**Version 0.0.1 approved**

**Prepared by**

**Group 8**

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**Revision History**

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
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| **Primary Actor** | **Use case** |
| **Guest** | 1. Sign-in. 2. Sign up |
| **Authenticated user** | 1. Sign out 2. Edit profile |
| **Customer (Parent or**  **Leaner)** | 1. Search for a tutor 2. Book tutor 3. Payment. |
| **Tutor** | 1. Edit profile 2. Schedule 3. Search 4. Edit class |
| **Manager** | 1. Create class 2. Edit class 3. Remove class 4. Create a tutor account 5. Update payment status |

**Use Cases**

Sign up

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| ID and Name: | **UC - 1 Sign up** | | |
| Created By: | Trong | Date Created: | 19/05/2022 |
| Primary Actor: | Guest | Secondary Actors: | System |
| Description: | Guest visits the application through the website to search for some lecturers, then he/she wants to register a course, but the service needs sign-in before can be used. This use case allows guest to sign in to the system. | | |
| Trigger: | A guest decides to sign in to use the service. | | |
| Preconditions: | PRE-1. The guest is not signed into the application. | | |
| Postconditions: | POST-1. The guest is authenticated user, then system display the welcome page. | | |
| Normal Flow: | **1. Sign up**   1. The user goes to the sign-in page. 2. The system prompts the user for username and password or the “Sign-in with Google account” button. 3. The guest selects “Sign-in with Google account” as student or lecturer, or enters username and password if he/she is admin. 4. The system does validate. 5. Guest is signed in and returned to the service page as authenticated User. | | |
| Alternative Flows: | 4.1.This is the first-time guest signs in:  - The system will ask for permission to get her/his details for the sign-up process.  - Back to step 2 to resign-in. | | |
| Exceptions: | 4.2. Admin user enters an invalid username or password:  1. The system alerts the reasons why failed.  2. The system prompts the user to resign again in step 2.  4.3. Email or account got ban:  1.The system alerts the account is got ban.  2. The system does not allow access, then back to step 2. | | |
| Priority: | High | | |
| Frequency of Use: | None. | | |
| Business Rules: | BR-2: Any admin account must be a local account.  BR-3: User must sign up for the first time. | | |
| Other Information: | None. | | |
| Assumptions: | None. | | |

Search Tutor

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| ID and Name: | **UC - 2 Search tutor** | | |
| Created By: | Trong | Date Created: | 19/05/2022 |
| Primary Actor: | Authenticated user | Secondary Actors: | System |
| Description: | A user has some problem with the knowledge, he goes to the search page, enters the criteria for his search, then the system shows search results. | | |
| Trigger: | A user decides to search for a tutor. | | |
| Preconditions: | PRE-1. The user must be a signed-in user. | | |
| Postconditions: | POST-1. Search results show on the page.  POST-2. The user is anyone, then he/she can search tutor | | |
| Normal Flow: | 1. The user selects the search service. 2. The system shows the search submission box. 3. The user enters criteria for search. 4. The system shows prompts for search criteria. 5. The user submits. 6. The system displays search results on-page. 7. The user selects one of these tutor for more information. | | |
| Alternative Flows: | None. | | |
| Exceptions: | 2.1 Input is empty or all-whitespace characters:  1. The system will do nothing. | | |
| Priority: | Medium | | |
| Frequency of Use: | On average, each student searches 3 times per day. | | |
| Business Rules: | BR-4: Guest can use the search service.  BR-5: The system does not allow to search for empty or all-whitespace values.  BR-6: Search results must be sorted in relation to search criteria from high to low. | | |
| Other Information: | None. | | |
| Assumptions: | None. | | |

Edit personal profile

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| ID and Name: | **UC - 3 Edit personal profile** | | |
| Created By: | Trong | Date Created: | 19/05/2022 |
| Primary Actor: | Authenticated user | Secondary Actors: | System |
| Description: | A user accesses the profile page, then the system shows her/his details, he views and makes some updates. | | |
| Trigger: | A user wants to view or edit his/her personal profile. | | |
| Preconditions: | PRE-1. The user must be a signed-in user. | | |
| Postconditions: | POST-1. Updated details are applied. | | |
| Normal Flow: | 1. The system displays the user’s profile on-page. 2. The user views his/her profile. 3. The user selects the detail he/she wants to edit. 4. The system enables editing on the selected detail. 5. The user enters a new value for detail and submits. 6. The system validates the value. 7. The system renders new value to the view. 8. The user closes the edit. | | |
| Alternative Flows: | None | | |
| Exceptions: | 5.1 The user clicks the cancel button, back to step 2.  6.1 Invalid value:  1. The system displays the reason invalid.  2. The system asks the user to re-enter a new value in step 5.  6.2 New value is the same as the old value.  1. The system displays the reason.  2. Back to step 5. | | |
| Priority: | Medium | | |
| Frequency of Use: | Users usually change their avatar 1 per month. | | |
| Business Rules: | BR-7: The authenticated users can view and edit their personal profiles.  BR-8: The admin user can view but cannot edit any other user’s profile. | | |
| Other Information: | None. | | |
| Assumptions: | None. | | |

Create class

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| UC ID and Name: | **UC - 4 Create available slots** | | |
| Created By: | Nhung | Date Created: | 19/05/2022 |
| Primary Actor: | Manager | Secondary Actors: | System |
| Trigger: | A manager indicates that he wants to create class | | |
| Description: | A manager accesses the system to add class, view the information, etc. | | |
| Preconditions: | PRE-1: Manager signed in by email | | |
| Postconditions: | POST-1: A class is added to the tutor schedule.  POST-2: The class is public to the search service. | | |
| Normal Flow: | **4 Create class**   1. The manager clicks the “create a class” button. 2. The system displays a form for the manager to create a class. 3. The manager fills in information to complete the form, then click preview. 4. The system displays a preview for a new class. 5. The manager clicks the submit button. 6. The system adds the slot to the tutor schedule, returns to the schedule page, and displays a message: “Successfully created a class”. | | |
| Alternative Flows: | 3.1 The manager cancels the creation.  1. The system return to the schedule page.  5.1 The manager clicks back to edit.  1. The system cancels the review page.  2. The system back to step 2, the input value is kept. | | |
| Exceptions: | 4.2. E1. Invalid input:       1. The system describes the reason.       2. Back to step 3.  4.2. E1. The system fails on adding a class:       1. The system notifies the manager that an error has occurred       2. Return to the schedule page. | | |
| Priority: | High | | |
| Frequency of Use: | Manager usually create a class to students can view, on average it is 3 times per week. The time to load add a slot into the website is 1 minutes. | | |
| Business Rules: | BR-9: The manager can create unlimited number of slots, but the slots do not overlap in time.  BR-10: A slot must last at least 15 minutes or more.  BR-11: A slot can have one or more topic. | | |
| Other Information: | None | | |
| Assumptions: | After the manager creates a new slot, the application will load to the website normally. There is no problem. | | |

Booking tutor

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| UC ID and Name: | **UC - 5 Booking tutor** | | |
| Created By: | Nhung | Date Created: | 20/09/2021 |
| Primary Actor: | Customer | Secondary Actors: | System |
| Trigger: | A customer indicates that he wants to booking a tutor | | |
| Description: | A manager creates some available class, and it is public to the search service. Students can search and booking tutor | | |
| Preconditions: | PRE-1: The manager signed in to the system.  PRE-2: The manager has created some available slots. | | |
| Postconditions: | POST-1: The system sends a notification to the student after booking tutor  POST-2: The system will send an email with the information about the meeting to both the student and tutor. | | |
| Normal Flow: | 1. The manager goes to his/her schedule page. 2. The manager selects a class. 3. The system displays class information and a list of booking for tutor. 4. The manager accepts booking 5. System sends notifications. | | |
| Alternative Flows: | 5.1 The manager accepts a booking request:   1. The system sends a notification on the website to both mentor and student. 2. The system sends an email about the meeting to both mentor and student 3. The class is unavailable for booking. | | |
| Exceptions: | 4.1 System fails to accept booking:   1. System notifies the manager that an error has occurred. 2. Return to the schedule page. | | |
| Priority: | High | | |
| Frequency of Use: | Every month , students usually choose a booking for tutor . So, the manager also usually accepts those requests. | | |
| Business Rules: | BR-12: A class can receive many booking, but only one could be accepted.  BR-13: The system must send an email notification to the student and the tutor before the meeting begin time. | | |
| Other Information: | None | | |
| Assumptions: | After the manager accepts a booking request. The application will load to the website normally. | | |

View schedule

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| UC ID and Name: | **UC – 7 View schedule** | | |
| Created By: | Anh | Date Created: | 19/05/2022 |
| Primary Actor: | Tutor | Secondary Actors: | System, lecturer |
| Trigger: | A tutor indicates that he wants to view schedule of himseft | | |
| Description: | A manager accepts a booking request from a student, then the system sends to them a link (google meet, zoom, etc.) to do meeting.. | | |
| Preconditions: | PRE-1: The manager accepted the student’s booking request.  PRE-2: The tutor has account | | |
| Postconditions: | POST-1 : Tutor can view schedule on dashboard | | |
| Normal Flow: | 1. The tutor goes to the dashboard page. 2. The admin clicks on “Schedule” button. 3. The system shows all schedule of tutor. | | |
| Alternative Flows: | None | | |
| Exceptions: | None | | |
| Priority: | High | | |
| Frequency of Use: | Tutor usually view schedule, on average it is 3 times per week. The time to load schedule into the website is 1 minutes. | | |
| Business Rules: |  | | |
| Other Information: | None | | |
| Assumptions: |  | | |

Create tutor account

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| UC ID and Name: | **UC – 9 Create topic** | | |
| Created By: | Anh | Date Created: | 19/05/2022 |
| Primary Actor: | Manager | Secondary Actors: | System |
| Trigger: | An manager indicates that he/she wants to create a tutor accounnt | | |
| Description: | Manager log in by account for the manager role. So manager can create a tutor account | | |
| Preconditions: | PRE-1: The manager sig in website | | |
| Postconditions: | POST-1: A tutor account is added to the website | | |
| Normal Flow: | 1. The admin goes to the dashboard page. 2. The admin clicks on “Create tutor account” button. 3. The system shows a form to create a new account. 4. The admin fills in the form and submit. 5. The system validate input. 6. The system adds new tutor account, then return back to topic dashboard. | | |
| Alternative Flows: | 6.1 The manager cancels the creation. | | |
| Exceptions: | 7.1 Invalid input   1. The system describes the reasons. 2. The system back to step 6. | | |
| Priority: | High | | |
| Frequency of Use: | Manager sometimes creates tutor account. | | |
| Business Rules: | BR-26: Only admin can add tutor account. | | |
| Other Information: | None | | |
| Assumptions: | After creating tutor account,  the application will load to the website normally.  There are no problem | | |