Includes:

Use case model

For each use case model, use case descriptions include:

* Unique numbered id
* The use case name
* Relevant user story ids that pertain to use case
* Actors
* Preconditions
* User/system steps
* Post-conditions
* Exceptions handled

Template – MAKE

Chart, bubble chart

Description automatically generated

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| --- | --- | --- | --- |
| Title: | **Private Message** | | |
| **Description**: | Enables users to message each other in private. | | |
| **System Under Design:** | Tutor Application | | |
| **Primary Actor**: | General User | | |
| **Participants**: | None | | |
| **Goal**: | Users expect to send a message to another user, and see messages sent by other users. | | |
| **Following Use Cases**: | None | | |
| **Invariant**: | None | | |
| **Precondition**: | None | | |
| **Success Postcondition**: | None | | |
| **STEPS**:   1. User A opens User B’s profile and clicks the private message icon on their profile 2. System opens a chat window between both users. 3. User A enters their message. 4. User A presses the deliver message button. 5. System encrypts the plaintext to ciphertext entered and sends it to user B. 6. System decrypts the ciphertext back to plaintext once user B receives the message. 7. System notifies user B through a pop up icon. 8. User B clicks / taps the icon and opens the message. | | **ALTERNATIVES** |

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| Title: | **Create Profile** |
| **Description**: | Enables all users to create either a student or tutor profile. |
| **System Under Design:** | Tutor Application |
| **Primary Actor**: | General User |
| **Participants**: | None |
| **Goal**: | Users expect to create their own profile based on their role within the app. |
| **Following Use Cases**: | None |
| **Invariant**: | None |
| **Precondition**: | User must be part of the University of Maine to create a student profile.  User must be accepted for tutoring to create a tutor profile.  User must be logged in to create a profile. |
| **Success Postcondition**: | User has filled all the required information for their profile. |

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| Title: | Log In |
| **Description**: | The steps of logging into the tutor application |
| **System Under Design:** | Tutor Application |
| **Primary Actor**: | General User |
| **Participants**: | None |
| **Goal**: | Log user in successfully |
| **Following Use Cases**: | Verify Password |
| **Invariant**: | None |
| **Precondition**: | System displays log in button. |
| **Success Postcondition**: | User is logged in |

**Main Success Path**

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| **ACTOR:**  1)User clicks log in button.  3)User enters username and password and presses Submit button. | **SYSTEM RESPONSES:**  2) System displays log in screen.  4) System verifies password (<<include>> relationship). |

**Exception Path**

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| **ACTOR:**  1)user Enters Password  4) Use sees Application user home screen | **SYSTEM RESPONSES:**  2) System verifies password  3) Password is not verified, <<exception>> display error triggered |

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| Title: | Verify password |
| **Description**: | System verified username and password to be correct or incorrect |
| **System Under Design:** | Tutor Application |
| **Primary Actor**: | User |
| **Participants**: |  |
| **Goal**: |  |
| **Following Use Cases**: |  |
| **Invariant**: |  |
| **Precondition**: | Log in use case |
| **Success Postcondition**: | Application user home screen is displayed |

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| Title: | Display error message |
| **Description**: | An error message is displayed to |
| **System Under Design:** | Tutor Application |
| **Primary Actor**: | User |
| **Participants**: |  |
| **Goal**: | Indicate to user that their password is incorrect |
| **Following Use Cases**: |  |
| **Invariant**: |  |
| **Precondition**: | Log in use case |
| **Success Postcondition**: |  |

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| **STEPS**:   1. User clicks / taps the ‘Create Profile’ button on their menu 2. System shows to the user two options: ‘Create student profile’, ‘Create tutor profile’ | | **ALTERNATIVES**:  2a. User clicks / taps the ‘Create student profile’ button  2a.1 System opens a new window and asks the user to insert their full name, student ID and email  2a.2 User enters their full name, student ID and email  2a.3 User clicks/ taps the ‘Submit’ button  2a.4 System checks whether the user is a student at the University of Maine based on the information submitted  2a.5 If the user is a student at UMaine, then the system opens up a new window containing a form that the user needs to fill with their student profile details.   * User fills in the rest of their profile * User clicks / taps the ‘Create profile’ button * System saves user’s information.   2a.6 If the user is not verified to be a UMaine student, the system will ask the user to insert their student information again (up to 3 tries), until they insert the correct information.  ——————————————————————  2b. User clicks / taps the ‘Create tutor profile’ button  2b.1 System checks whether the user has applied to become a tutor on this app.  2b.2 If the user has applied:   * System checks if their application is approved, declined, or under review. * If their application has been approved: * System opens up a new window containing a form that the user needs to fill in with their tutor profile details. * User fills in the rest of their profile * User clicks / taps the ‘Create profile’ button * System saves user’s information. * If their application has been declined: * System notifies the user that they can’t create a tutor profile on this application. * If their application is under review: * System notifies the user to wait for the result of their application.   2b.3 If the user has not applied:   * System notifies the user to apply for a tutor first before creating a tutor profile. |
| Title: | **Search Tutors** | | |
| **Description**: | **Enables student users to search for tutors by name or subject.** | | |
| **System Under Design:** | **Tutor App** | | |
| **Primary Actor**: | **Student User** | | |
| **Participants**: | **None** | | |
| **Goal**: | **Users expect to have a list of tutors that matches their search criteria.** | | |
| **Following Use Cases**: | **None** | | |
| **Invariant**: | **None** | | |
| **Precondition**: | **None** | | |
| **Success Postcondition**: | **A successful match is found.** | | |

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| **STEPS**:     1. Student presses the ‘Search Tutor’ button in their menu. 2. System shows the student two options to pick from: ‘Search by name’ , ‘Search by subject’. | **ALTERNATIVES**:  2a. Student clicks / taps ‘Search by name’ button.  2a.1 System opens up a new search box.  2a.2 Student enters their text in the search box.  2a.3 Student clicks / taps the search button.  2a.4 System checks whether the name matches to any tutor profile.  2a.5 System shows all the available tutor profiles (if any) that match that name.  ——————————————————————  2b. Student clicks / taps ‘Search by subject button’.  2b.1 System checks whether there is any subject with that name registered.  2b.2 System shows all the available tutor profiles (if any) for that subject. |