Web Chat Application

Use-Case Model

Version <1.0>

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 23/Mar/17 | <x.x> | <details> | <name> |
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Use-Case Model

# Use-Cases Identification

## Register a new user

**Use case: Register a new user**

**Level: user-goal**

**Primary actor: Unregistered user**

**Main success scenario:**

* **The unregistered user is prompted to input the following data:**
  + **Full name**
  + **Username**
  + **Password**
  + **Email**
* **The user enters the requested data**
* **The system validates the data**
* **The new account is created**

**Extensions:**

* **Username already used – display an error message, return to first step**
* **Email already used – display an error message, return to first step**

## Log in as a user

**Use case: Log in as a user**

**Level: sub-function**

**Primary actor: user**

**Main success scenario:**

* **The user is prompted to input their username and password**
* **The user enters the requested data**
* **The system checks if the credentials match with the ones stored in the database**
* **The system sends a token to the user’s client**
* **The user’s client receives the token and uses it for making further requests**

**Extensions:**

* **The credentials supplied by the user are invalid – display an error message, return to first step**

## Add a message to a conversation

**Use case: Add a text message to a conversation**

**Level: user-goal**

**Primary actor: user**

**Main success scenario:**

* **The user logs in**
* **The user selects a conversation they belong to**
* **The user types in the message and presses the send button**
* **The message is inserted by the system into that conversation’s history**
* **The message is displayed for all the users associated with that conversation**

**Extensions:**

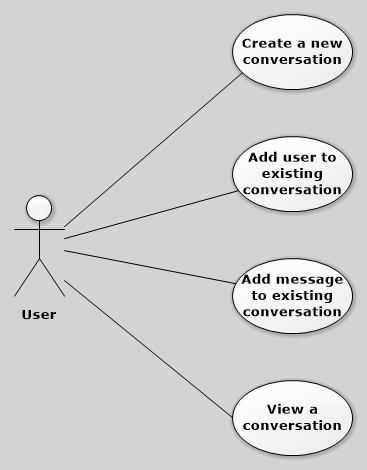
* **The log in step fails – this case is treated in the log in sub-function described above**
* **The user has no conversation they belong to – only the ‘Create a new conversation’ option is shown. The other steps are not available yet**
* **The user’s client fails to send the message to the server – an error message is displayed**

# UML Use-Case Diagrams

The unregistered user can only create an account that will be used to log in.



Here, ‘user’ refers to any user that created an account for this application. The log-in operation is not mentioned as a use-case because it is considered a step in the use-cases that are mentioned.



Another user is the administrator, who has the right to perform CRUD operations on users.

