Use Cases

for

ChatApp

Version 1.0 approved

Prepared by <author>

<organization>

<date created>

Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
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# Guidance for Use Case Template

Document each use case using the template shown in the Appendix. This section provides a description of each section in the use case template.

# Use Case Identification

## Use Case ID

Give each use case a unique integer sequence number identifier. Alternatively, use a hierarchical form: X.Y. Related use cases can be grouped in the hierarchy.

## Use Case Name

State a concise, results-oriented name for the use case. These reflect the tasks the user needs to be able to accomplish using the system. Include an action verb and a noun. Some examples:

1. View part number information.
2. Manually mark hypertext source and establish link to target.
3. Place an order for a CD with the updated software version.

## Use Case History

### Created By

Supply the name of the person who initially documented this use case.

### Date Created

Enter the date on which the use case was initially documented.

### Last Updated By

Supply the name of the person who performed the most recent update to the use case description.

### Date Last Updated

Enter the date on which the use case was most recently updated.

# Use Case Definition

## Actor

An actor is a person or other entity external to the software system being specified who interacts with the system and performs use cases to accomplish tasks. Different actors often correspond to different user classes, or roles, identified from the customer community that will use the product. Name the actor that will be initiating this use case and any other actors who will participate in completing the use case.

## Description

Provide a brief description of the reason for and outcome of this use case, or a high-level description of the sequence of actions and the outcome of executing the use case.

## Preconditions

List any activities that must take place, or any conditions that must be true, before the use case can be started. Number each precondition. Examples:

1. User’s identity has been authenticated.
2. User’s computer has sufficient free memory available to launch task.

## Postconditions

Describe the state of the system at the conclusion of the use case execution. Number each postcondition. Examples:

1. Document contains only valid SGML tags.
2. Price of item in database has been updated with new value.

## Normal Flow

Provide a detailed description of the user actions and system responses that will take place during execution of the use case under normal, expected conditions. This dialog sequence will ultimately lead to accomplishing the goal stated in the use case name and description. This description may be written as an answer to the hypothetical question, “How do I <accomplish the task stated in the use case name>?” This is best done as a numbered list of actions performed by the actor, alternating with responses provided by the system. The normal flow is numbered “X.0”, where “X” is the Use Case ID.

## Alternative Flows

Document other, legitimate usage scenarios that can take place within this use case separately in this section. State the alternative flow, and describe any differences in the sequence of steps that take place. Number each alternative flow in the form “X.Y”, where “X” is the Use Case ID and Y is a sequence number for the alternative flow. For example, “5.3” would indicate the third alternative flow for use case number 5.

## Exceptions

Describe any anticipated error conditions that could occur during execution of the use case, and define how the system is to respond to those conditions. Also, describe how the system is to respond if the use case execution fails for some unanticipated reason. If the use case results in a durable state change in a database or the outside world, state whether the change is rolled back, completed correctly, partially completed with a known state, or left in an undetermined state as a result of the exception. Number each alternative flow in the form “X.Y.E.Z”, where “X” is the Use Case ID, Y indicates the normal (0) or alternative (>0) flow during which this exception could take place, “E” indicates an exception, and “Z” is a sequence number for the exceptions. For example “5.0.E.2” would indicate the second exception for the normal flow for use case number 5.

## Includes

List any other use cases that are included (“called”) by this use case. Common functionality that appears in multiple use cases can be split out into a separate use case that is included by the ones that need that common functionality.

## Priority

Indicate the relative priority of implementing the functionality required to allow this use case to be executed. The priority scheme used must be the same as that used in the software requirements specification.

## Frequency of Use

Estimate the number of times this use case will be performed by the actors per some appropriate unit of time.

## Business Rules

List any business rules that influence this use case.

## Special Requirements

Identify any additional requirements, such as nonfunctional requirements, for the use case that may need to be addressed during design or implementation. These may include performance requirements or other quality attributes.

## Assumptions

List any assumptions that were made in the analysis that led to accepting this use case into the product description and writing the use case description.

## Notes and Issues

List any additional comments about this use case or any remaining open issues or TBDs (To Be Determineds) that must be resolved. Identify who will resolve each issue, the due date, and what the resolution ultimately is.

Use Case List

|  |  |
| --- | --- |
| Primary Actor | Use Cases |
| Registered User | 0.0, 0.1 |
| Unregistered User | 1.0 |
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| --- | --- | --- | --- |
| Use Case ID: | 0.0 | | |
| Use Case Name: | Registered Send | | |
| Created By: | Kellen | Last Updated By: | 9/18/24 |
| Date Created: | 9/18/24 | Date Last Updated: | 9/18/24 |

|  |  |
| --- | --- |
| Actors: | Registered User, Moderator |
| Description: | Registered User sends a chat message |
| Preconditions: | 1. User logged in 2. Connected to server |
| Postconditions: | 1. New message in chatbox |
| Normal Flow: | 0.0.1  1. User types message   1. Hits send 2. Moderator receives message 3. Moderator accepts message 4. All Users receives accepted message |
| Alternative Flows: | 0.0.1   1. Moderator rejects message 2. User receives message telling them message was rejected |
| Exceptions: | 0.0.E.1  1.User is disconnected  2.Pop up window telling user they need to reconnect to network  0.0.E.2  1. Moderator disconnecting  2. Pop up window telling user session is over |
| Includes: |  |
| Priority: | High |
| Frequency of Use: | 30 seconds |
| Business Rules: | Project requirements |
| Special Requirements: | Show waiting screen for user to see that their message is being processed. |
| Assumptions: | The user being connected and logged in without any issues |
| Notes and Issues: |  |

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| --- | --- | --- | --- |
| Use Case ID: | 0.1 | | |
| Use Case Name: | Registered View | | |
| Created By: | Kellen | Last Updated By: | 10/1/24 |
| Date Created: | 10/1/24 | Date Last Updated: | 10/1/24 |

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| --- | --- |
| Actors: | Registered User |
| Description: | Registered User views messages sent while connected |
| Preconditions: | 1. User logged in 2. Connected to server 3. Chats received |
| Postconditions: |  |
| Normal Flow: | 0.1.1  1. User connects to server  2. Approved as registered user  3. Receives messages to view |
| Alternative Flows: | 0.1.1  1. User connects to server  2. Unapproved as registered user  3. Views message the same |
| Exceptions: | 0.0.E.1  1.User is disconnected  2.Pop up window telling user they need to reconnect to network  0.0.E.2  1. Moderator disconnecting  2. Pop up window telling user session is over |
| Includes: |  |
| Priority: | High |
| Frequency of Use: | 30 seconds |
| Business Rules: | Project requirements |
| Special Requirements: |  |
| Assumptions: | The user being connected and logged in without any issues |
| Notes and Issues: |  |

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| --- | --- | --- | --- |
| Use Case ID: | 1.0 | | |
| Use Case Name: | Unregistered View | | |
| Created By: | Kellen | Last Updated By: | 10/1/24 |
| Date Created: | 10/1/24 | Date Last Updated: | 10/1/24 |

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| --- | --- |
| Actors: | Unregistered User |
| Description: | Unregistered User views chats |
| Preconditions: | 1. User connected |
| Postconditions: |  |
| Normal Flow: | 0.1.1  1. User joins chat room  2. Views received messages from server |
| Alternative Flows: |  |
| Exceptions: | 0.0.E.1  1.User is disconnected  2.Pop up window telling user they need to reconnect to network  0.0.E.2  1. Moderator disconnecting  2. Pop up window telling user session is over |
| Includes: |  |
| Priority: | High |
| Frequency of Use: | 2 seconds |
| Business Rules: | Project requirements |
| Special Requirements: | Show feedback when user is unable to connect |
| Assumptions: | The user being connected and logged in without any issues |
| Notes and Issues: |  |

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| --- | --- | --- | --- |
| Use Case ID: | 2.0 | | |
| Use Case Name: | Moderator | | |
| Created By: | Jacob | Last Updated By: | 10/2/24 |
| Date Created: | 10/2/24 | Date Last Updated: | 10/2/24 |

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| --- | --- |
| Actors: | Moderator/admin user |
| Description: | Moderates incoming messages and registers clients |
| Preconditions: | 1. Selected Moderator |
| Postconditions: | 1. Moderator Dashboard set visible |
| Normal Flow: | 2.0  1. User selects Moderator, taking the role as moderator  2. Waits for a user to join ip  3. Moderator registers or keeps new user unregistered  4. Can approve or reject messages |
| Alternative Flows: |  |
| Exceptions: | 0.0.E.1  1.User is disconnected  2.Pop up window telling user they need to reconnect to network  0.0.E.2  1. Moderator disconnecting  2. Pop up window telling user session is over |
| Includes: |  |
| Priority: | High |
| Frequency of Use: | 2 seconds |
| Business Rules: | Project requirements |
| Special Requirements: | Moderator has their own privaleges |
| Assumptions: | The user being connected and logged in without any issues |
| Notes and Issues: |  |