

Texas Tech University

CS4366 Senior Capstone Project

TTU CS Blog

Design

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# Functional Requirements

*User Functional Requirements*

R1 Post

R1.1 Registered users shall be able to create posts on the blog

R1.2 The system shall display a 'Post' button which takes the user to a posting template to fill out

R1.3 After creating the post the user is taken to the new page created for their post

R1.4 'Administrator' user has the authority to close and/or move a post

R2 Restrict Access

R2.1 'Guest' users do not have permission to post

R2.2 'Faculty' users will only have permission to post research and articles

R3 Search

R3.1 'Registered', 'Guest', 'Faculty', and 'Administrator' users have the ability to search the blog

R3.2 The System displays any page on the blog domain

R3.3 The user enters their search criteria in the search bar

R3.4 The system displays a list of search results

*System Functional Requirements*

R4 Manage

R4.1 The System shall maintain a total number of topics

R4.2 The System shall mark each post as 'Answered' or 'Unanswered'

R4.3 The System shall close a post if it remains unanswered after the time out period

R4.4 The System shall close a post if it remains unanswered after the time out period

R5 Reward Points

R5.1 'Registered' users have the ability to mark answers to their posted questions as 'Correct' or 'Helpful'

R5.2 The System will reward points to marked answers

R5.3 The System finds an answer marked as correct and rewards a set amount of points to the account associated to it

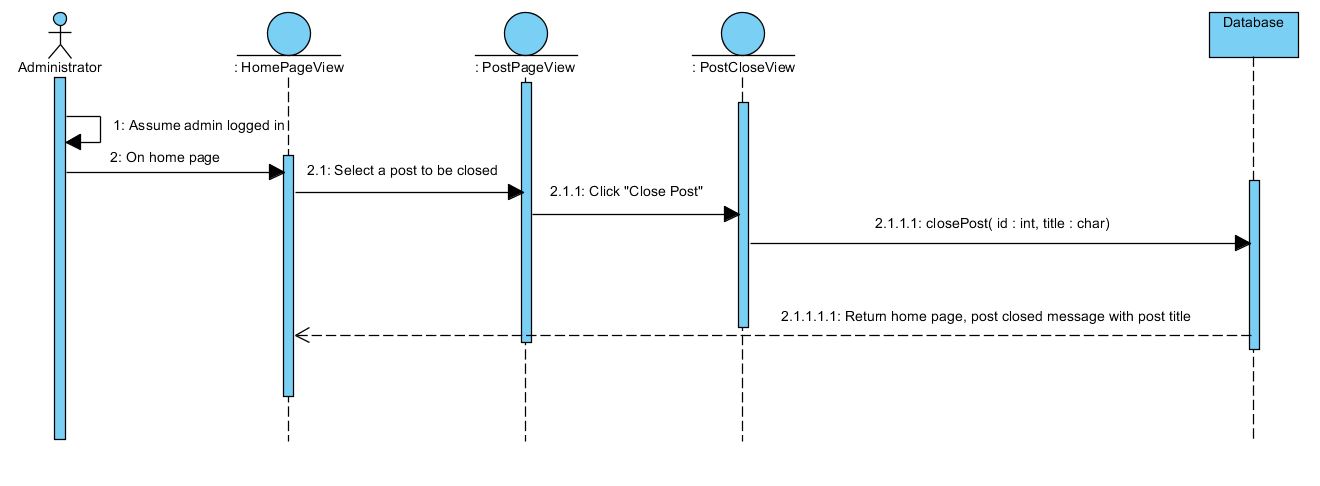
R6 Notify

R6.1 The System shall automatically notify a user when someone has answered their post

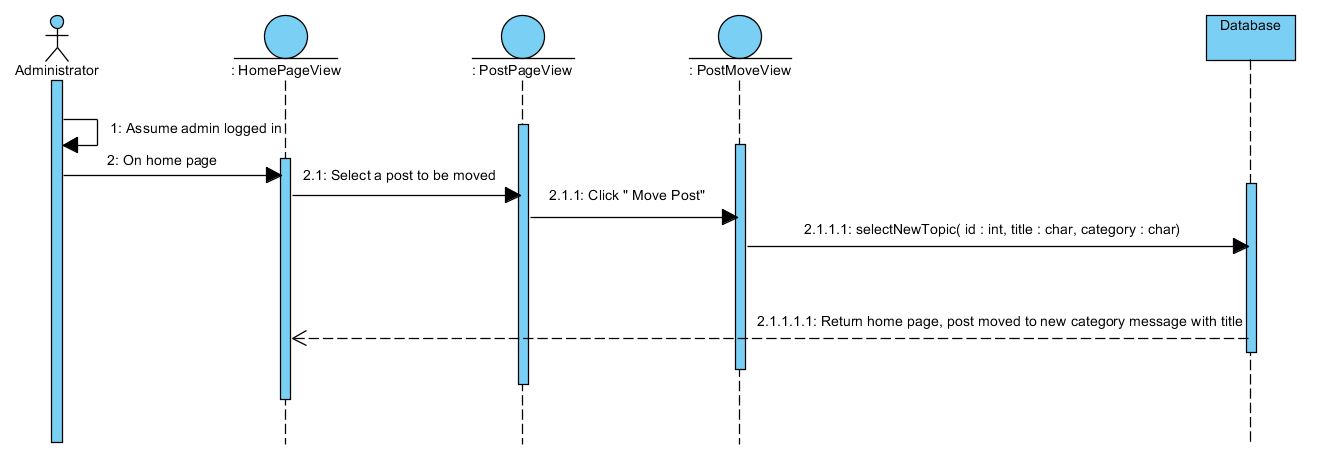
R4.2 The System Shall automatically notify a user when one of their answers have been marked as 'Correct' or 'Helpful'

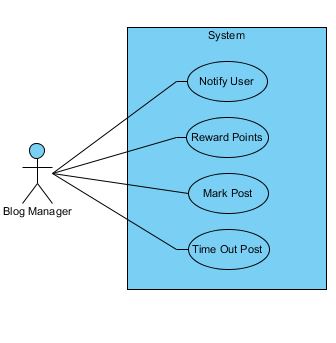
# Use CasesC:\wamp\www\CapstoneProject\Proposal\Design\Administrator User Use Case Diagram.JPG

|  |  |
| --- | --- |
| Administrator |  |
| Title | **Administrator Close Post** |
| Summary | The administrator user has the authority to close a post. |
| Preconditions | The administrator user is logged in and is located on a thread on the domain. |
| Post-conditions | The administrator user closes a thread. |
|  |  |
| Actor : Administrator User | System |
|  | 0. The system displays any page on the forum domain and an administrator user is logged in. |
| 1. The administrator user selects a thread to be closed. | 2. The system displays "Are you sure?" question on the thread selected by the administrator user. |
| 3. The administrator user selects close thread. | 4. The systems displays page "Thread Closed" with title of thread. |

***Close Post***

|  |  |
| --- | --- |
| ***Administrator*** |  |
| Title | **Administrator Move Post** |
| Summary | The administrator user has the authority to move a post to a different topic/category. |
| Preconditions | The administrator user is logged in and is located on a thread on the domain. |
| Post-conditions | The administrator user moves a thread. |
|  |  |
| Actor : Administrator User | System |
|  | 0. The system displays any page on the forum domain and an administrator user is logged in. |
| 1. The administrator user selects a thread to be moved. | 2. The system displays "Are you sure?" questions on the thread selected by the administrator user. |
| 3. The administrator user selects move thread. | 4. The system displays page "Thread Moved" with title of thread to new location. |

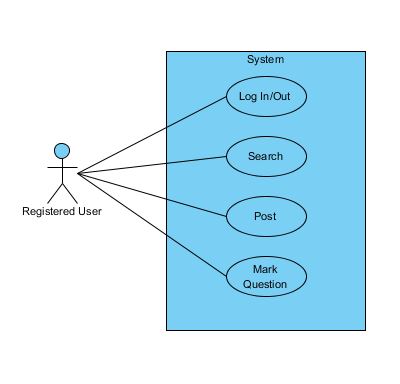
***Move Post***

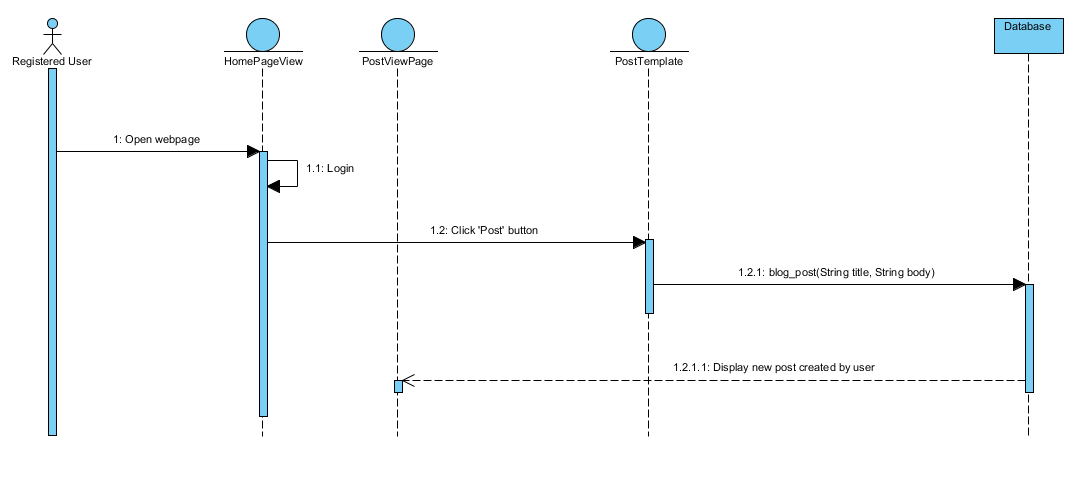


|  |  |
| --- | --- |
| Blog Manager |  |
| Title | **Reward Points** |
| Summary | The system will reward points based on correct answers to posted questions |
| Preconditions | A user has chosen a correct answer to their post |
| Post-conditions | The user who answered correctly is rewarded points to their account |
|  |  |
| Actor : Blog Manager | System |
|  | 0. The system finds an answer marked as correct |
| 1. The blog manager identifies the user with the correct answer | 2. The system rewards a set number of points to the appropriate account |

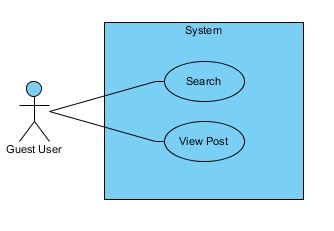
## Reward Points

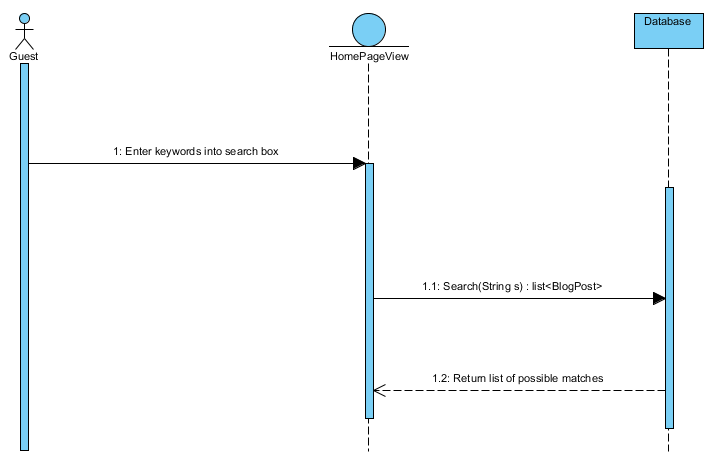
|  |  |
| --- | --- |
| Registered User |  |
| Title | **Post Question** |
| Summary | The registered user can post new questions on the blog |
| Preconditions | The user is registered and logged in |
| Post-conditions | A new question is posted onto the blog |
|  |  |
| Actor : Registered User | System |
| 0. The user clicks the 'Post' button | 1. System displays PostTemplate page |
| 2. The user fills out the template for their question | 3. System creates a new post page for the user's question |

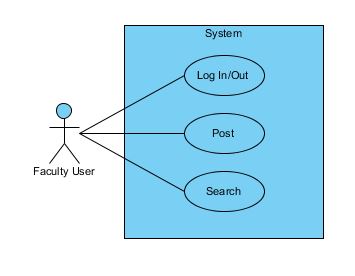


 ***Post Question***

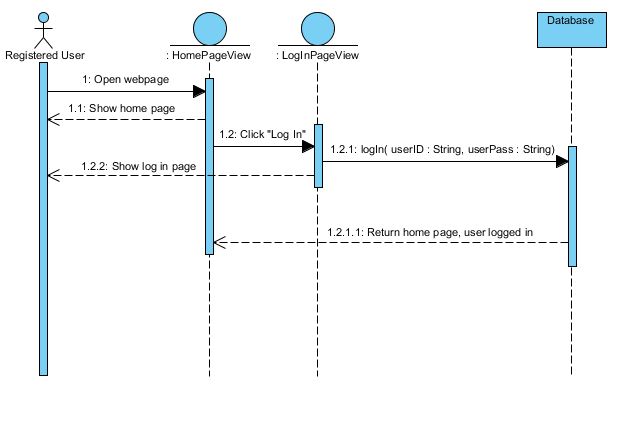
|  |  |
| --- | --- |
| Guest |  |
| Title | Search |
| Summary | The guest user can search the forums by entering a search criteria in the search bar. |
| Preconditions | The guest user must be on the forum domain. |
| Post-conditions | The guest user will have results on the searched criteria. |
|  |  |
| Actor : Guest | System |
|  | 0. The system displays any page on the forum domain. |
| 1. The guest user enters a search criteria in the search bar. | 2. The system displays any topics from the given search criteria. |
| 3. The guest user may select from the given results. | 3. The system will display the selected thread. |

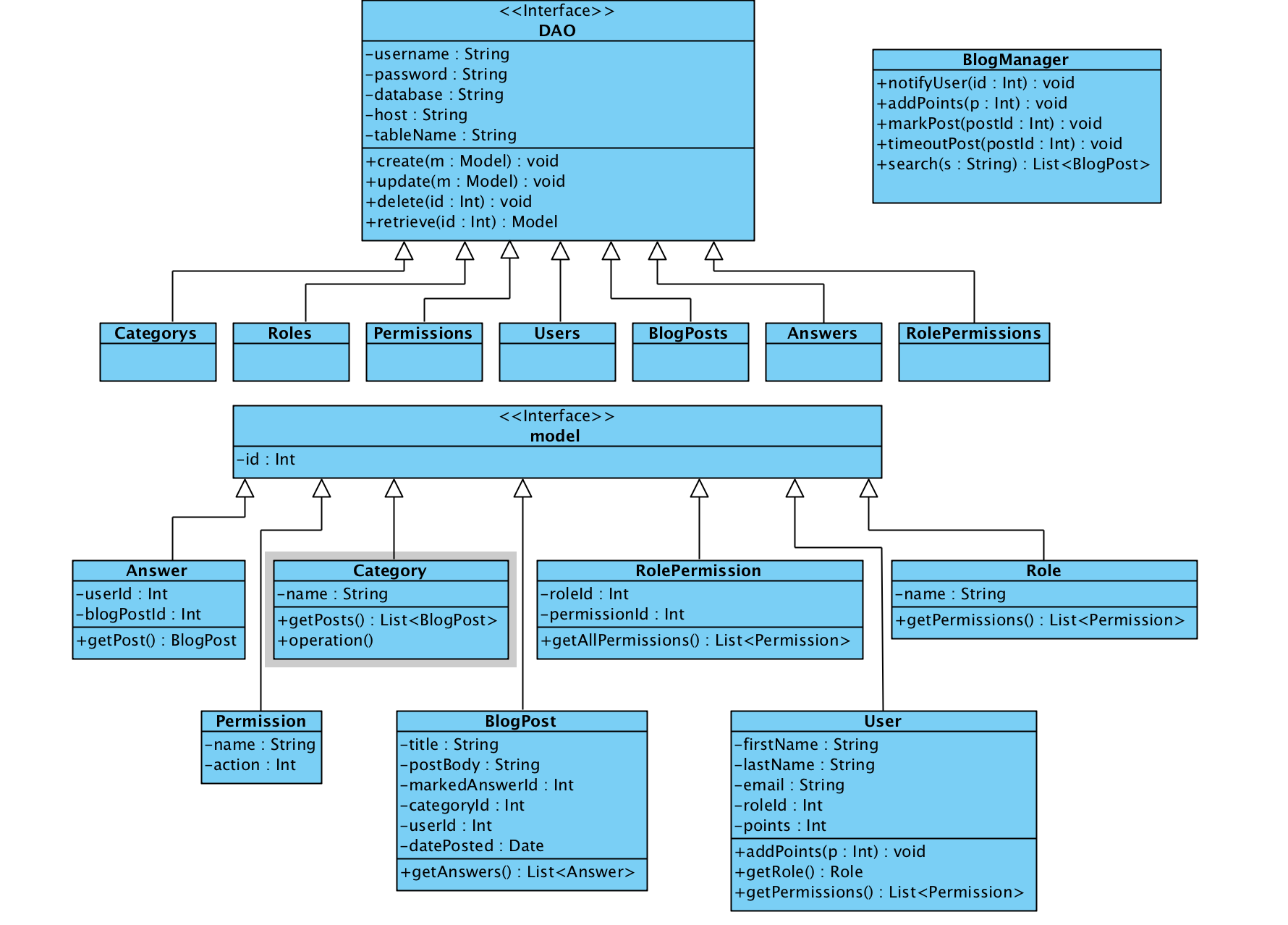
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***Search***



|  |  |
| --- | --- |
| Faculty |  |
| Title | **Login** |
| Summary | Users with accounts can login |
| Preconditions | The user has account on the blog |
| Post-conditions | The user logs into the blog |
|  |  |
| Actor : Registered User | System |
| 0. The user opens the webpage | 1. System displays the blog homepage |
| 2. The user enters their login credentials and clicks 'Login' | 3. System verifies user's login credentials and logs user in |

***Login***

***UML Class Diagram***