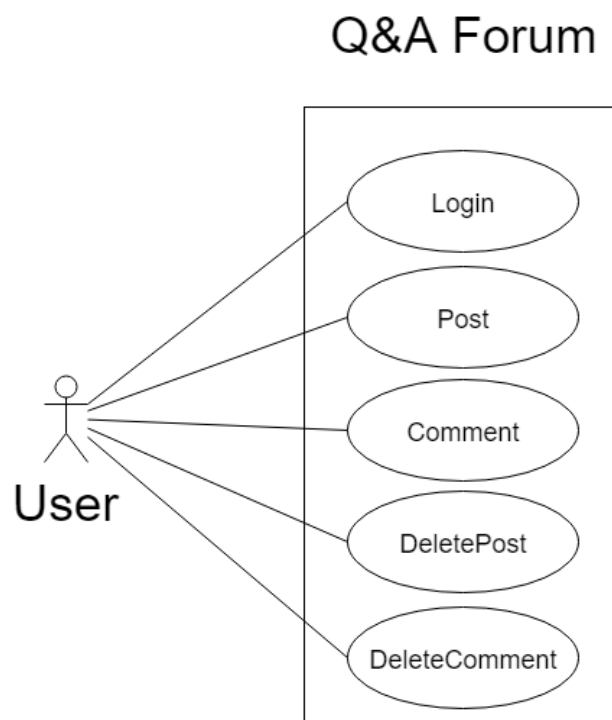


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The project required that we design and implement a question and answer forum aimed at King's students and faculty members, with each post or comment having an verified user behind it. We also realised we would need a database to hold the questions and answers Below is the initial use case diagram we would base the key features of our application around.

USE CASE DIAGRAM



We designed our system so that a user has to first login before they can post a question or a answer to a question, but to verify that the login was from a King's user, we decided we would use microsoft's authentication that is used to login to the majority of the services King's has to offer. If the login is successful the email used to login will be used to identify the user who posts questions or answers.

Below is some expanded detail for the use cases:

Login: Will log the user in if the email is a King's account and password is correct

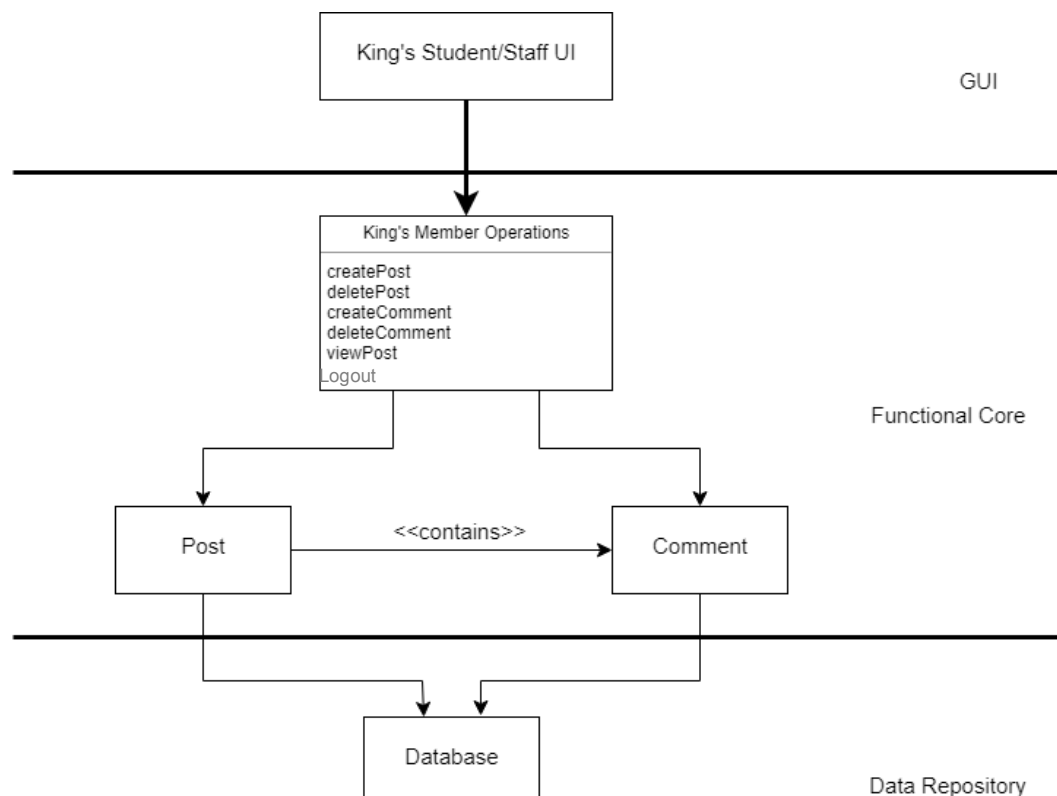
Post: The logged in user will be able to create a post with a title and a body, once the submit button is pressed, the post will be displayed along with the author and date it was added

Comment: The logged in user will be able to create a comment with a body, and when pressed, the comment will be displayed along with the author and date it was added

Delete Post: If the user logged in is the same user that created the post, the user can click delete to remove the post

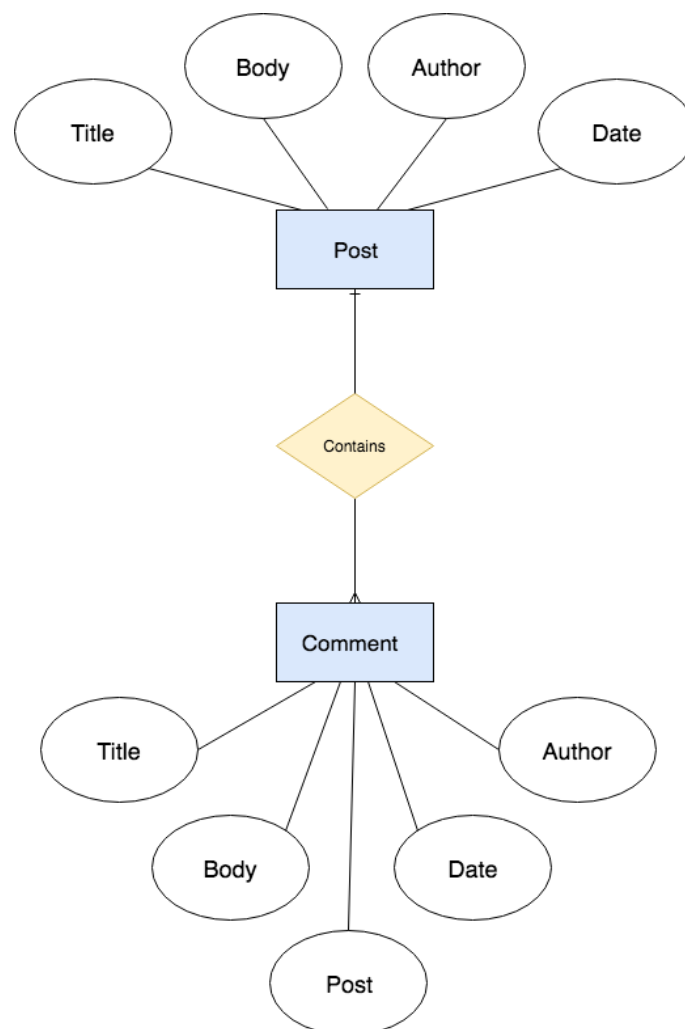
Delete Comment: If the user logged in is the same user that created the comment, the user can click delete to remove the comment

ARCHITECTURE DIAGRAM



The architecture diagram above describes our system components and shows the capabilities of the user once logged in. From the main forum page the user is able to click 'Create new post' to create a new post or click on an existing post to view it. Once on the page of a post the comments will be visible and there will be button for creating a new comment. On either page if there is a post or comment created by the user, they will be able to delete said post or comment. If on the main forum page you are able to logout and login as another KCL user.

ENTITY RELATIONSHIP DIAGRAM



Above is the entity relationship diagram for the forum's database which shows the basic structure our comments and posts are stored in. A comment cannot exist without a post so each comment will have a foreign key pointing towards the parent post it belongs to. The multiplicity is also shown as one post can contain many comments and a comment can only belong to one post.

TEAM MEMBER CONTRIBUTIONS

Henry: Login authentication and CSS, Comments

Shakeel: Models, Forms, Tests, Views, URLs, Comments

Matthew: Forms and Report/Design Doc

Tabia: Readme and CSS

Safwan: CSS and Readme

Everyone on the team had inputs during meetings regarding the design of the of the application and how we were going to go about implementing it.