CU Connect

Part 3

Team Number: 41

Team Members:

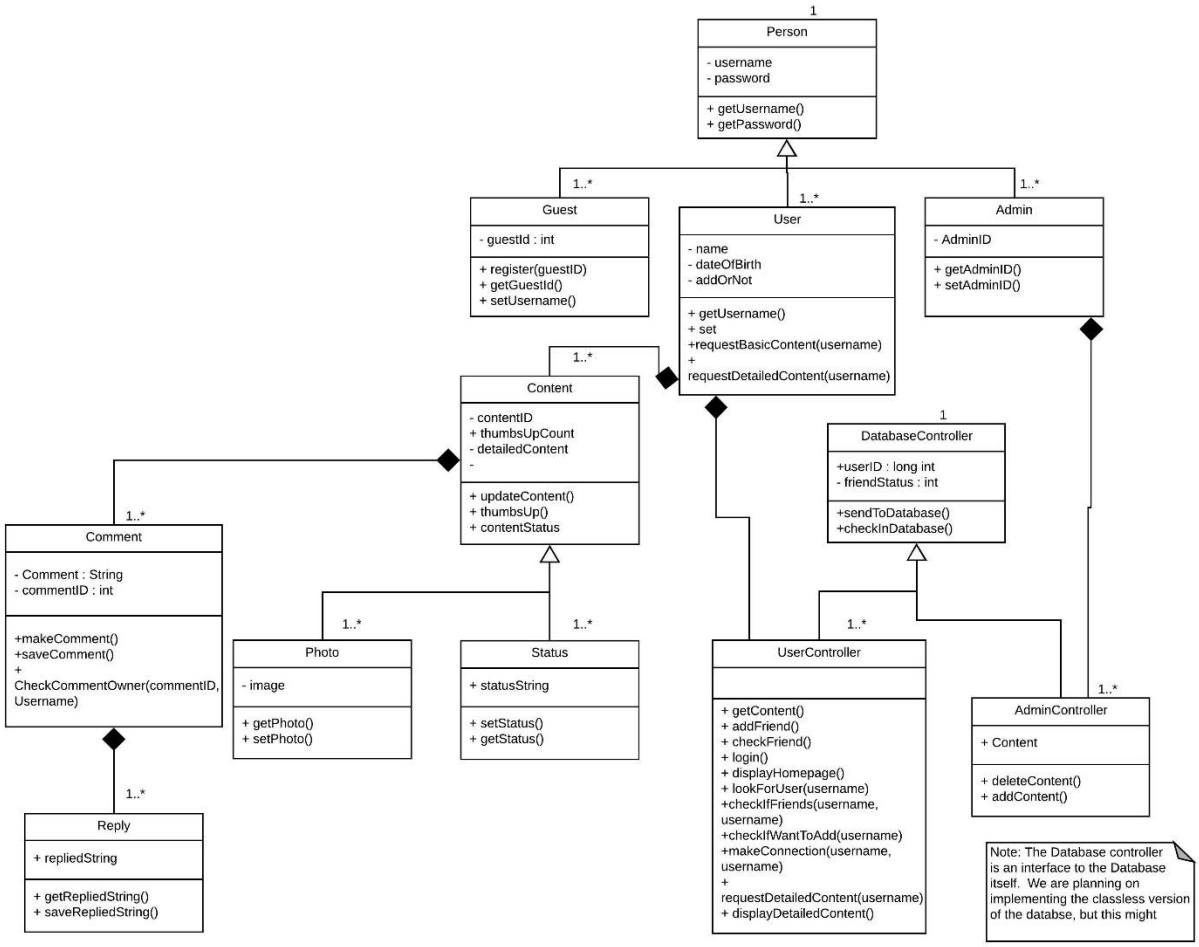
1. Richard Noronha
2. Jayakrishnan HJ

Vision and Description: CUConnect is an online portal for CU students and past pupils to connect with each other. It is a social media prototype for such a portal. In this portal, the users can connect and share content such as photos and status. The other users will have the ability to view these photos and status. They will also be able to make comments and Thumbsup a post.

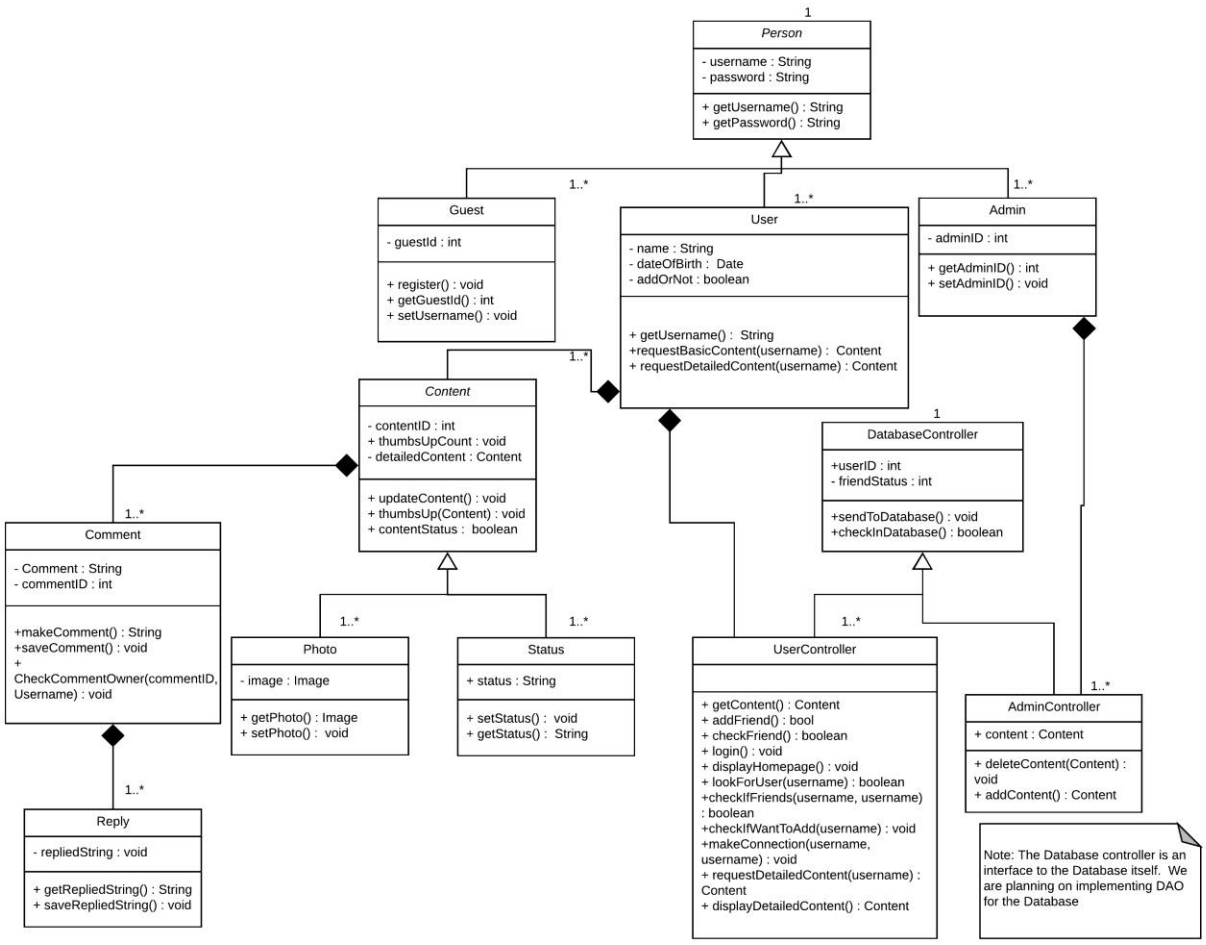
Actors: User, Admin

The backend of the system will be implemented using Java. We have tried to be as detailed as we can foresee as of now. As and when modifications are needed, the documents and diagrams will be updated. A database will be implemented too

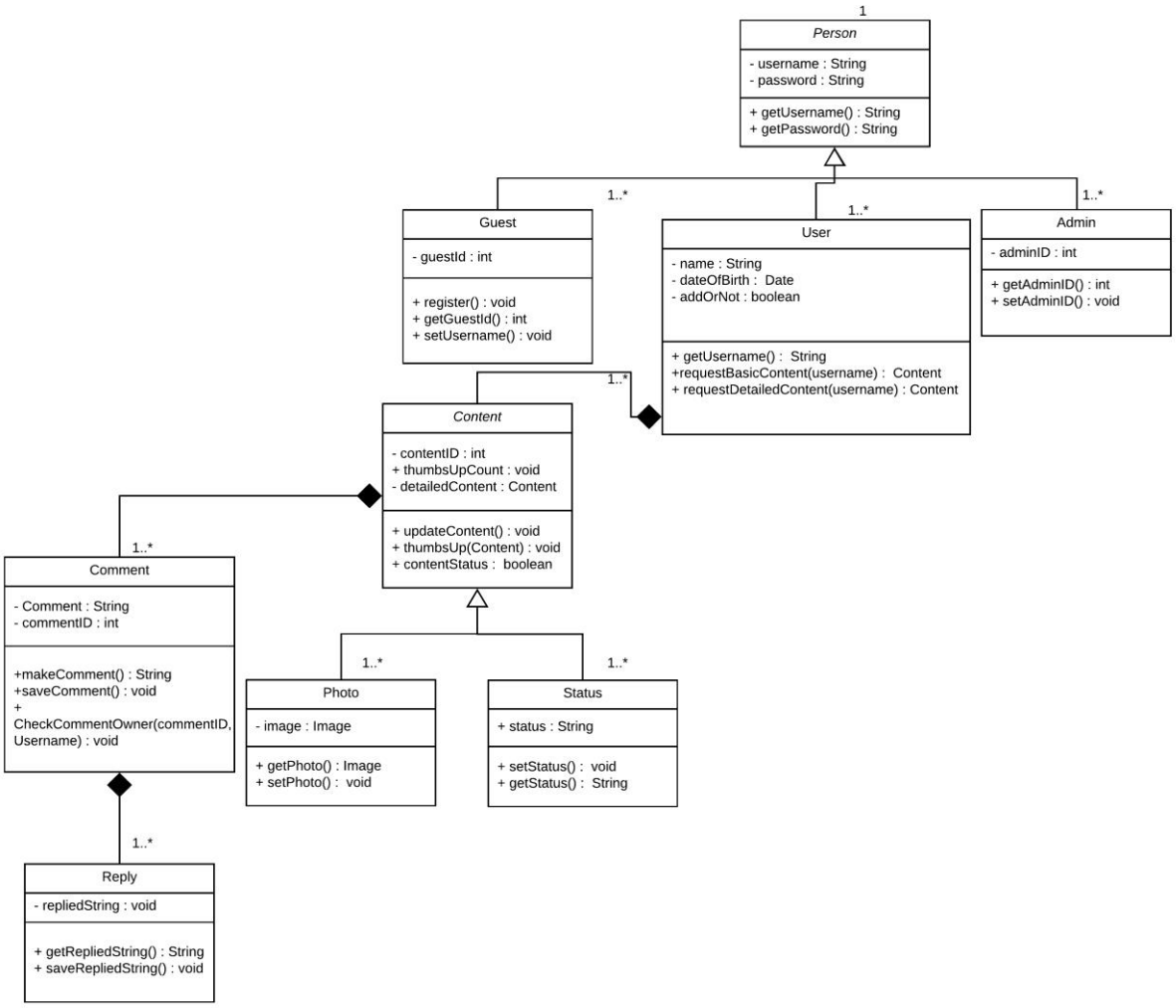
Part 2 Class Diagram:



Part 3: Class Diagram



Implemented Class Diagram:



Summary of the work:

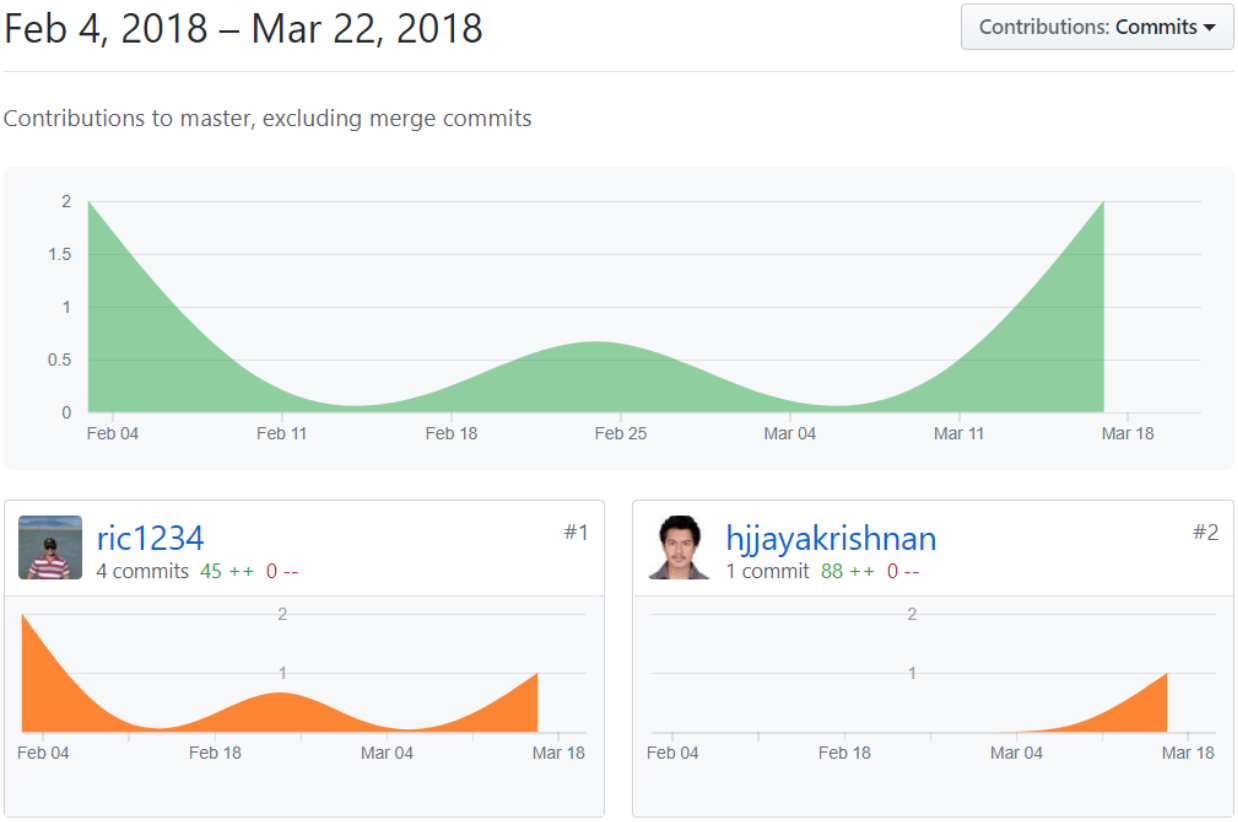
1. Now that we got a better grip over design patterns, we explored different patterns and researched how it can be effectively applied for our application. For instance, the content class can be created using the composite design pattern to utilize its tree structure and also to provide a uniform access across all objects.

2. We also researched patterns for data access and decided to go with the 'Data Access Object' pattern. A Data Access Object (DAO) is used to abstract and encapsulate all access to the data source. The DAO manages the connection with the data source to obtain and store data. For the data source, we are planning to use a persistent source like an RDBMS.

Tasks:

1. Class Diagram refactoring: Jayakrishnan, Richard
2. Design patterns: Richard
3. Database and Data Pattern: Jayakrishnan
4. Code structuring and framework: Jayakrishnan, Richard

Github Graph:



Remaining Effort:

There is plenty of work left to be done. The database, frontend, integration of the various classes, implementing a framework, etc. are still pending.

Next Iteration:

In the coming weeks we will implement the classes completely utilizing the various design patterns as explained above. Also, we will be following a framework and implement the basics of the front end as well.

We will also look into how Java is to be integrated with a DataBase. This might not be implemented in the next iteration but we will have to do some research before finalizing anything.