CS551 - ADVANCED SOFTWARE ENGINEERING
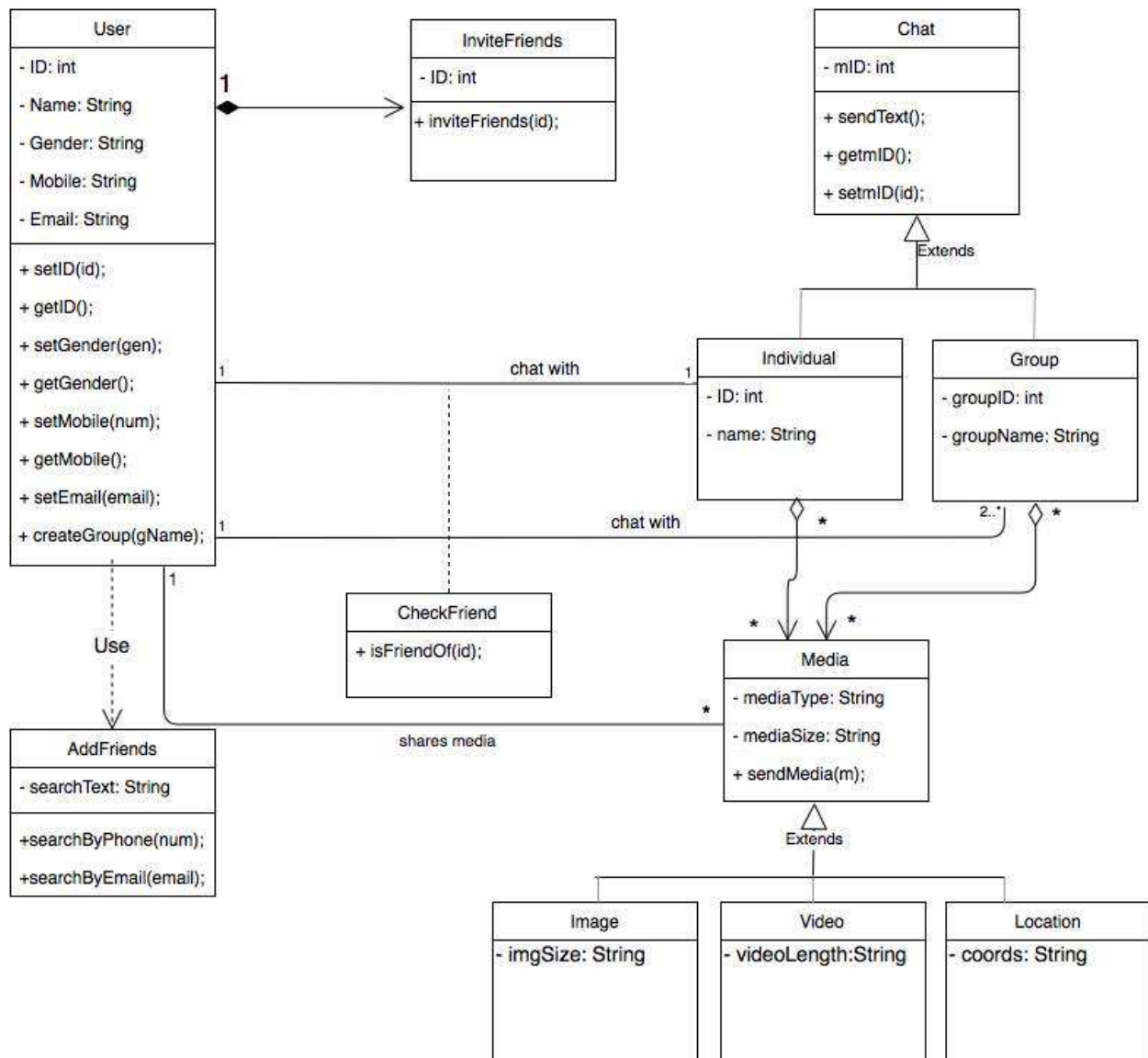
Dr. Yugyung Lee

Home Assignment #1

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QUESTION 1:

UML CLASS DIAGRAM FOR CHAT APPLICATION:

1. **User** class has been created under which the functions of the user are Creating a group (createGroup()).

2. **AddFriends** class has been created which is used by the **User** in order to **Search friends by phone number** or **email address**.

3. **Chat** class has been created and is generalized into **Individual** and **Group** as the **User** can chat with his friend or group of friends.
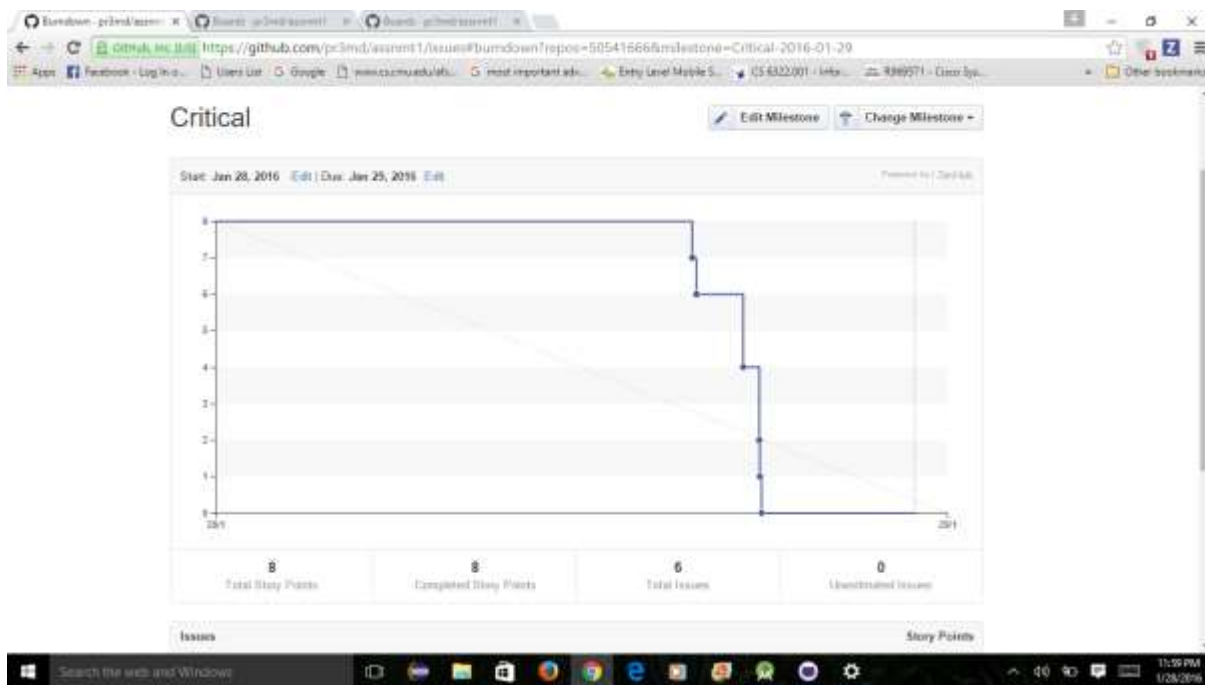
4. The relation between **User** and **Individual** is association and the multiplicity is **1 to 1**. There is an association class under this called **CheckFriend** which is used to check whether the User and the other person are friends or not.

5. The relation between **User** and **Group** is association and the multiplicity is **1 to 2..*** as a group must have atleast 2 people
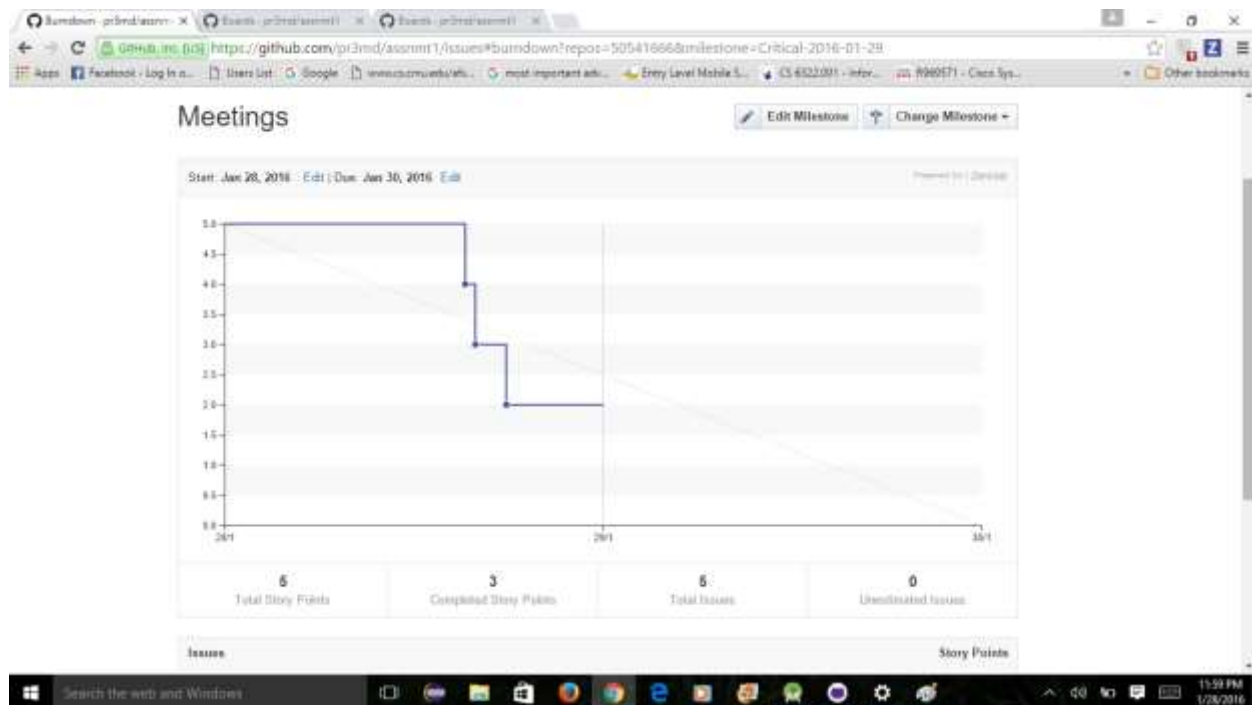
QUESTION 2:

1. First 15 issues are created and fixing them is categorized into three milestones, namely Critical, User Experience and Meetings.
2. Each Issue can be provided with a label. (Eg: BUG, ENHANCEMENT, INVALID, HELP WANTED etc.), assigned to Collaborators.
3. An estimate is provided to an issue depending on how many work hours it takes to fix that particular issue.
4. Milestones are given a Start date and End date, so that they can be completed within that time.
5. After fixing the issues and prioritizing them accordingly, we get the Analytics Graph (Burndown).
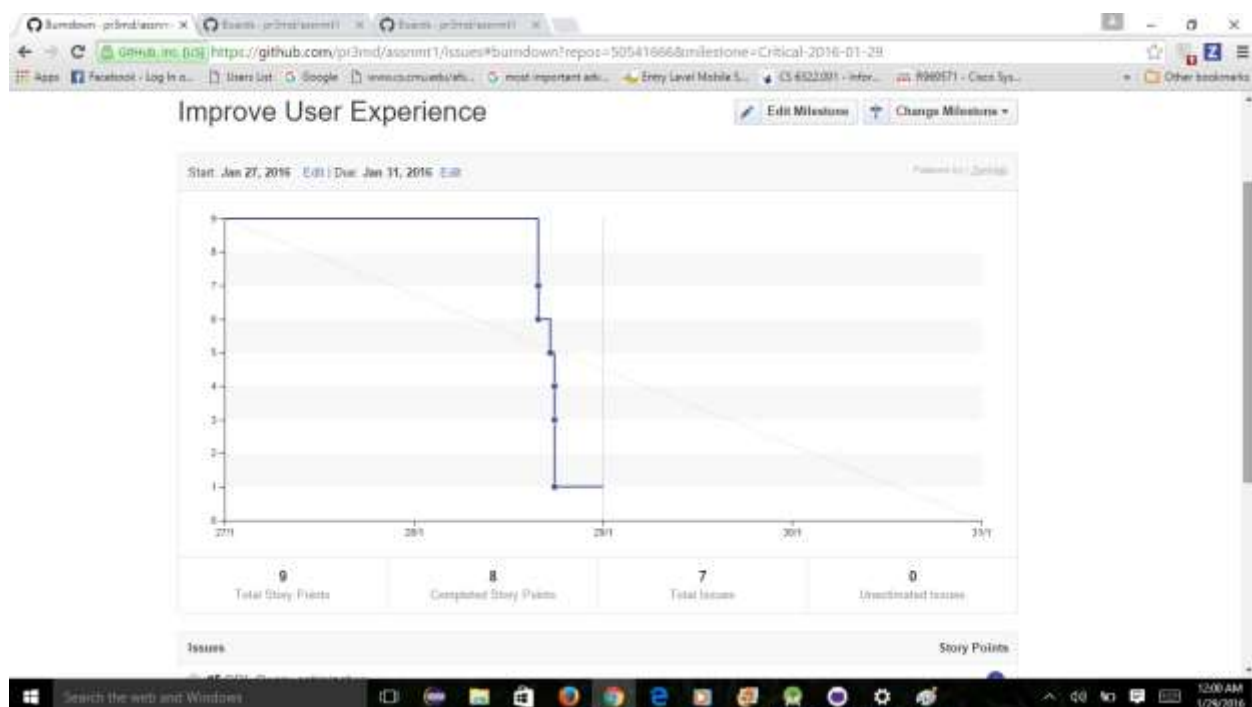1) **Critical**

2) Meetings

3) Improve User Experience

QUESTION 3:

1. A repository name **assnmt1** has been created. ([Link](#))
2. Git has been initialized and a **README.MD** file has been created, added, committed and pushed to the repository.
3. Then two folders **src**, **documentation** have been created using the **md** command.
4. Screenshots are placed in the **documentation** folder and an empty file has been placed in **src** folder.
5. These folders are **added, committed** and **pushed** to the repository.