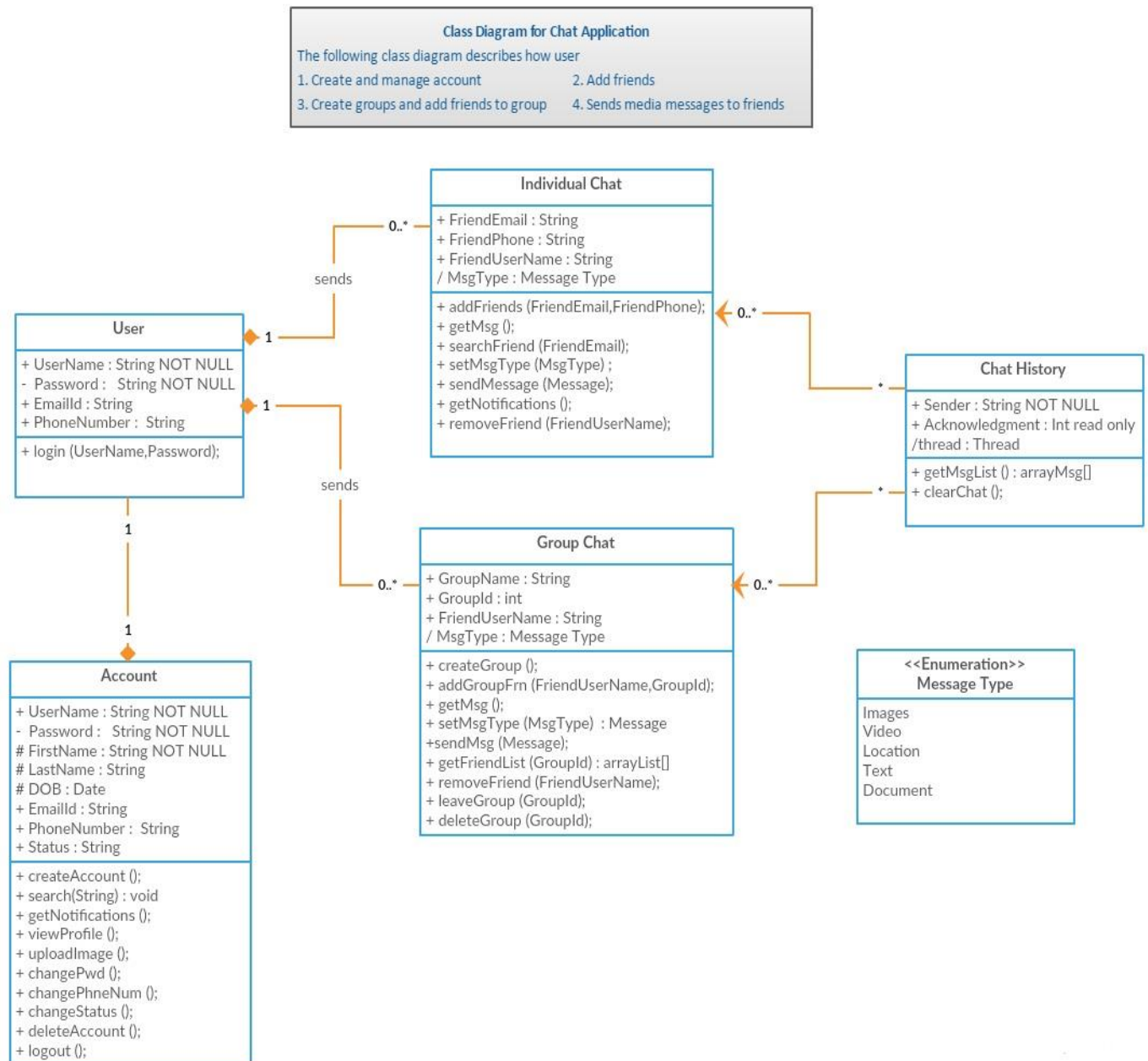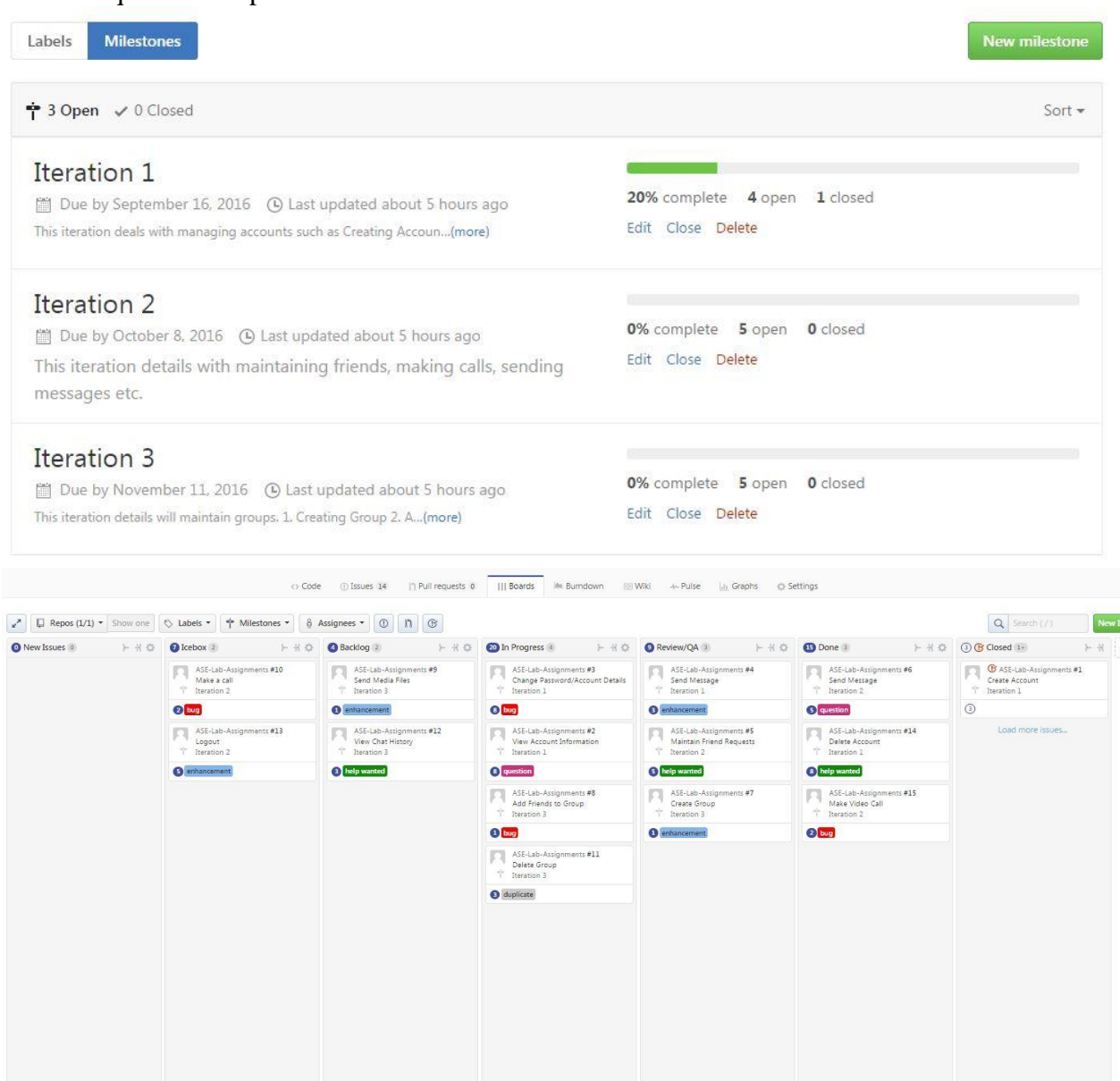# LAB ASSIGNMENT #1

## 1) UML Class diagram for the below scenario:

*Chat application:* A user can create an account and add friends using their mobile number or email id. User can chat with any individual from his friends list; User can also create groups and invite his friends to join the group. In addition to that, media like images, video, location can be shared with friends and group.



**Class Diagram for Chat Application**

The following class diagram describes how user
1. Create and manage account          2. Add friends
3. Create groups and add friends to group          4. Sends media messages to friends

**Individual Chat**

+ FriendEmail : String
+ FriendPhone : String
+ FriendUserName : String
/ MsgType : Message Type

+ addFriends (FriendEmail,FriendPhone);
+ getMsg ();
+ searchFriend (FriendEmail);
+ setMsgType (MsgType) ;
+ sendMessage (Message);
+ getNotifications ();
+ removeFriend (FriendUserName);

**User**

+ UserName : String NOT NULL
- Password :  String NOT NULL
+ EmailId : String
+ PhoneNumber :  String

+ login (UserName,Password);

**Chat History**

+ Sender : String NOT NULL
+ Acknowledgment : Int read only
/thread : Thread

+ getMsgList () : arrayMsg[]
+ clearChat ();

**Group Chat**

+ GroupName : String
+ GroupId : int
+ FriendUserName : String
/ MsgType : Message Type

+ createGroup ();
+ addGroupFrn (FriendUserName,GroupId);
+ getMsg ();
+ setMsgType (MsgType)  : Message
+sendMsg (Message);
+ getFriendList (GroupId) : arrayList[]
+ removeFriend (FriendUserName);
+ leaveGroup (GroupId);
+ deleteGroup (GroupId);

**Account**

+ UserName : String NOT NULL
- Password :  String NOT NULL
# FirstName : String NOT NULL
# LastName : String
# DOB : Date
+ EmailId : String
+ PhoneNumber :  String
+ Status : String

+ createAccount ();
+ search(String) : void
+ getNotifications ();
+ viewProfile ();
+ uploadImage ();
+ changePwd ();
+ changePhneNum ();
+ changeStatus ();
+ deleteAccount ();
+ logout ();

**<<Enumeration>>**
**Message Type**

Images
Video
Location
Text
Document

2) **Using ZenHub tool create a board, 3 iterations, at least 5 tasks and show the analytics graph.**

- Under ASE-Lab-Assignments repository 3 milestones are created as Iteration 1, Iteration 2 and Iteration 3.
- Each Milestone is created with Start Date and End Date.
- Under each Milestone 5 tasks are created.
- Each task is assigned to its respective pipelines such as New Issue, Icebox, Backlog, In-Progress, Review, Done and Closed.
- Also each task is given a Story Point i.e. an estimate which is used measure the effort required to implement tasks.
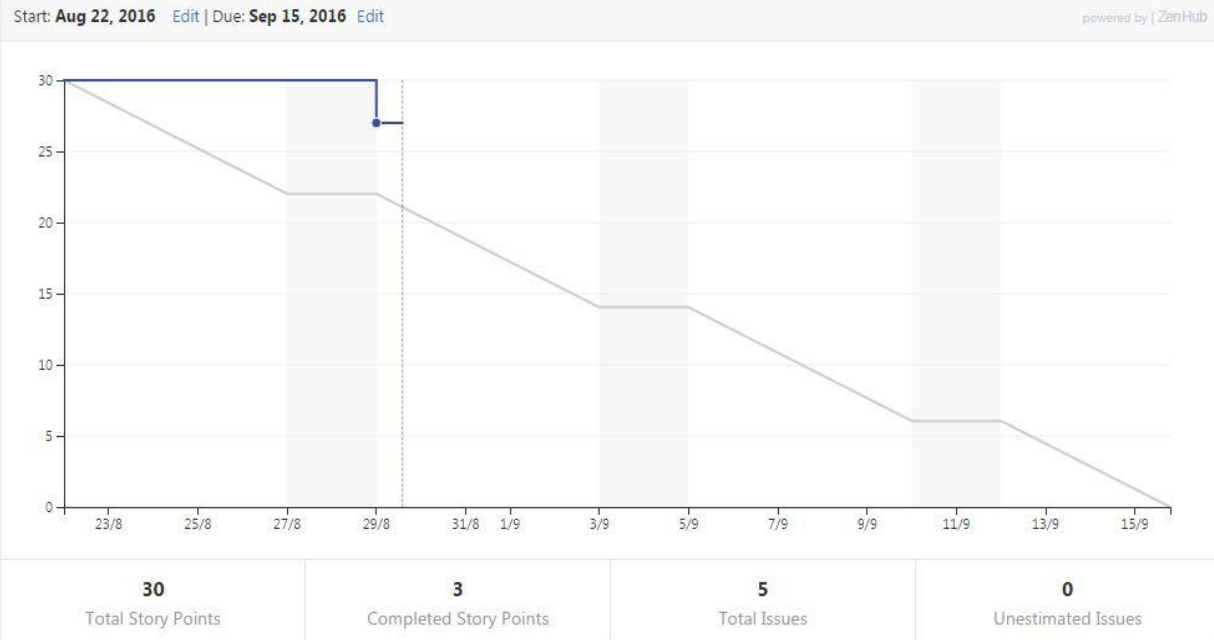
- For each milestone burndown chart is generated which represents the work that is left verses time based on number of issues and its Story Points.

## Iteration 1

Edit Milestone | Change Milestone ▾

This iteration deals with managing accounts such as Creating Account, Editing Account Details, Changing Password, Deleting Account etc.
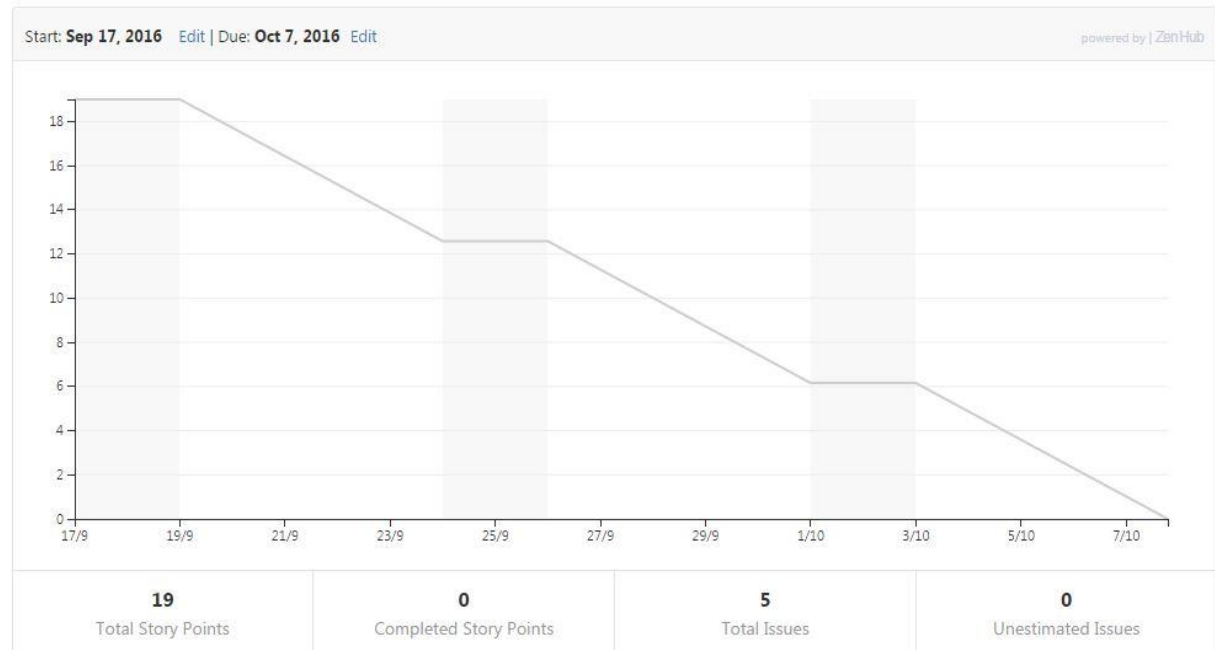
Hide Pull Requests | Labels ▾

Start: **Aug 22, 2016** Edit | Due: **Sep 15, 2016** Edit

powered by | ZenHub



| 30 | 3 | 5 | 0 |
|---|---|---|---|
| Total Story Points | Completed Story Points | Total Issues | Unestimated Issues |

### ✝ Iteration 1

| Repository | Issues | Story Points |
|---|---|---|
| ASE-Lab-Assignments | ⓘ #14 **Delete Account** | 8 |
| ASE-Lab-Assignments | ⓘ #3 **Change Password/Account Details** | 8 |
| ASE-Lab-Assignments | ⓘ #2 **View Account Information** | 8 |
| ASE-Lab-Assignments | ⓘ #4 **Send Message** | 3 |
| ASE-Lab-Assignments | ⊗ #1 **Create Account** | ③ |

# Iteration 2

This iteration details with maintaining friends, making calls, sending messages etc.

[✏ Edit Milestone] [♱ Change Milestone ▾]

[↥ Hide Pull Requests] [🏷 Labels ▾]

Start: **Sep 17, 2016** Edit | Due: **Oct 7, 2016** Edit

powered by | ZenHub



| 19 | 0 | 5 | 0 |
|---|---|---|---|
| Total Story Points | Completed Story Points | Total Issues | Unestimated Issues |

### ♱ Iteration 2

| Repository | Issues | Story Points |
|---|---|---|
| ASE-Lab-Assignments | ⊘ #13 **Logout** | 5 |
| ASE-Lab-Assignments | ⊘ #6 **Send Message** | 5 |
| ASE-Lab-Assignments | ⊘ #5 **Maintain Friend Requests** | 5 |
| ASE-Lab-Assignments | ⊘ #15 **Make Video Call** | 2 |
| ASE-Lab-Assignments | ⊘ #10 **Make a call** | 2 |

# Iteration 3

This iteration details will maintain groups.

1. Creating Group
2. Adding friends to Group
3. Deleting Group
4. Sending media files to group

[ Hide Pull Requests ]  [ Labels ▾ ]

Start: **Oct 8, 2016**  Edit | Due: **Nov 10, 2016**  Edit

powered by | ZenHub

| 9 | 0 | 5 | 0 |
|:---:|:---:|:---:|:---:|
| Total Story Points | Completed Story Points | Total Issues | Unestimated Issues |
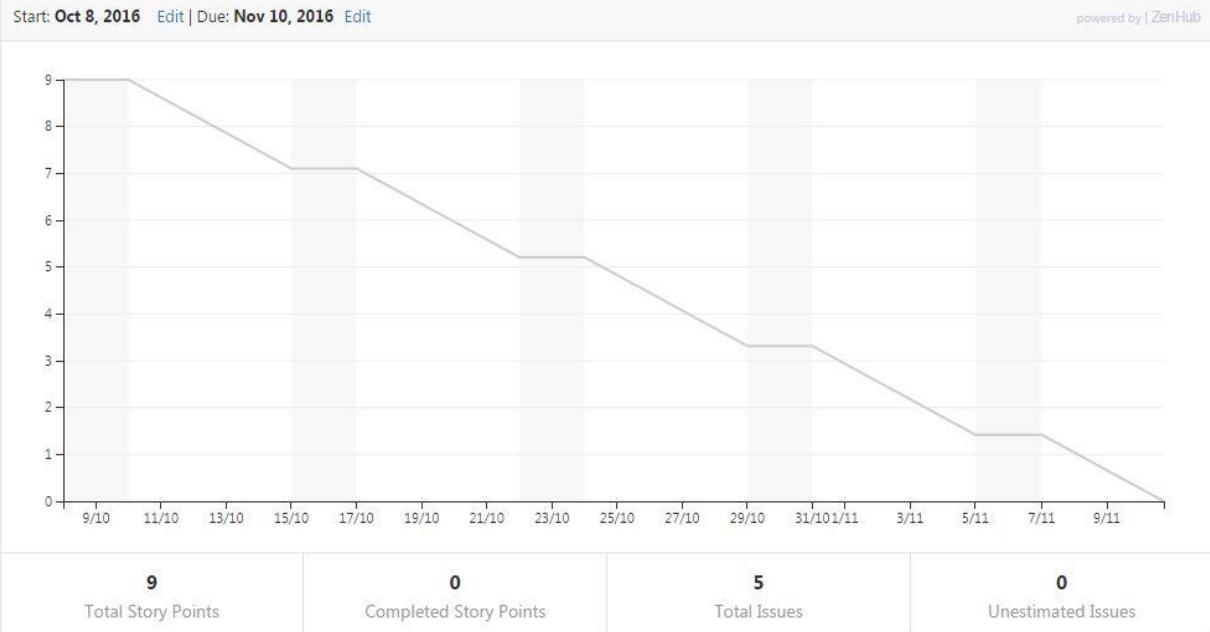
## ✝ Iteration 3

| Repository | Issues | Story Points |
|---|---|---:|
| ASE-Lab-Assignments | ⊘ #12 **View Chat History** | ③ |
| ASE-Lab-Assignments | ⊘ #11 **Delete Group** | ③ |
| ASE-Lab-Assignments | ⊘ #9 **Send Media Files** | ① |
| ASE-Lab-Assignments | ⊘ #8 **Add Friends to Group** | ① |
| ASE-Lab-Assignments | ⊘ #7 **Create Group** | ① |

**3) Creating Wiki page through Github**

https://github.com/cmoulika009/ASE-Lab-Assignments/wiki/ASE-Lab-Assignment-1

# ASE Lab Assignment 1

Moulika Chadalavada edited this page 2 minutes ago · 11 revisions

LAB ASSIGNMENT 1

- Lab Assignment #1 mainly concentrates on usage of tools like GitHub, ZenHub, Creately, Visio etc.

- New repository **ASE-Lab-Assignments** is created in GitHub and this repository is cloned from remote to local machine.

- Class Diagram is created for **Chat Application Process** using Creately.

- Using both GitHub and Zenhub Board, 3 Milestones with 5 tasks each are created

- Burndown graphs are generated for each Milestone.

- Under **ASE-Lab-Assignments** repository two folders Source and Documentation are created in local and the class diagrams and chats are place under Documentation folder.

- Again from local machine the changes are cloned to remote GitHub.

- All the above details are documented in below link.

Lab #1 Documentation

**4) Create GitHub Account. Create a repository in remote Github. Clone it to local machine.**

- New repository ASE-Lab-Assignments is created in remote Github and is cloned to local machine.
- Two folders Source and Documentation is created and the Lab-1 Assignment documentation is placed in Documentation folder.
- All these changes done in local machine is cloned to remote GitHub.