Software Development Environment

# Software Development Environment

* Eclipse IDE
* Linux environment
* Java for user interface
* C for group chat functionalities
* Unit testing user interface

Schedule/Software Development Plan

The automated testing, setup of the CI and CD environment as well as the sprint back log will be implement and completed from the 22 June 2015 to the 5 July 2015 because that is when we conclude our exams and start implementations.

Please note that for each ‘story’ we will setup unit testing and automated testing as discussed later on in the user role table.

# Task Description

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STORY NAME** | **TASK NUMBER** | **TASK DESCRIPTION** | **STATUS** | **ESTIMATED EFFORT(weeks)** | **Effort Remaining** | **Sprint Days** | |
| **Automated testing, CI and CD environment setup, sprint back log** | 0.1 | Sprint Back-log | Open | 3 | 3 | 22-Jun-15 | |
| 0.2 | CI & CD Setup | Open | 3 | 3 | 22-Jun-15 | |
| 0.3 | Automated Testing setup | Open | 3 | 3 | 22-Jun-15 | |
| **STORY NAME** | **TASK NUMBER** | **TASK DESCRIPTION** | **STATUS** | **ESTIMATED EFFORT(weeks)** | **Effort Remaining** | **Sprint Days** | **Ideal Effort** |
| **GROUP CHAT** | 1 | Create Chat | Open | 2 | 2 | 5-Jul-15 | 900 |
| 2 | Delete Chat | Open | 1 | 1 | 12-Jul-15 | 800 |
| 3 | Add and delete users | Open | 1 | 1 | 19-Jul-15 | 700 |
| 4 | Members Receive Mgs | Open | 2 | 2 | 2-Aug-15 | 600 |
| 5 | Secure Group Chat | Open | 2 | 2 | 16-Aug-15 | 500 |
| **INTERFACES** | 6 | Group Chat Interface | Open | 3 | 3 | 6-Sep-15 | 400 |
| 7 | Change Message Interface | Open | 1 | 1 | 13-Sep-15 | 300 |
| **RECORDING** | 8 | Voice Recoding | Open | 2 | 2 | 27-Sep-15 | 200 |
| 9 | Send Recording | Open | 1 | 1 | 4-Oct-15 | 100 |
| **Demo** | 10 | Testing the system to ensure that no bugs and errors are found | Open | 2 | 2 | 23-Oct-15 | 0 |

# User Role

Each task in the user story is implemented concurrently and sequentially as needed.

|  |  |  |
| --- | --- | --- |
| **USER STORY** | **TASKS** | **ASSIGNED TO** |
| I can create a group chat and add at least 1 member, I can select members from my contact list to be a part of the group chat. | Code the create chat function | Ephiphania |
| Code the add user function | Lerato |
| Design UI | Tsepo |
| Unit Test | Lutfiyya |
| Automated Test(CI & CD) | Patience |
| After the group chat is completed I can (as the administrator) delete the chat, At anytime I can remove a member from the group chat | Code the delete chat function | Potego |
| Delete Users | Ephiphania |
| Unit Test | Lerato |
| Automated Test(CI & CD) | Lutfiyya |
| In the group chat one member sends a message in the group all the other members will receive it | Code send messages to members | Patience |
| Code receive messages to members | Potego |
| Design UI | Tsepo |
| Unit Test | Ephiphania |
| Automated Test(CI & CD) | Lerato |
| The group chats have to be secure. | Secure Group Chat | \*\*Research |
| As a user I should be able to send and receive voice recordings | Send voice recording | Lutfiyya |
| Receive voice recoding | Patience |
| Voice Recoding | Potego |
| Design UI | Tsepo |
| Unit Test | Ephiphania |
| Automated Test(CI & CD) | Lerato |
| The message interface should appeal to me as the user | Space between words | Lutfiyya |
| Font modification | Patience |
| Indents blocks | Potego |
| User presence | Tsepo |
| User picture | Ephiphania |
| Testing | Testing the system to ensure that no bugs and errors are found | \*Baobab |

# Burn Down Chart