# Test Cases

## Project: Vox Realtime Groupchat App

### 1. Test Title: Create Account

#### Executed by: Henry Morales

#### SRS Section Id: 3.1

* Description: To login into the application, a user must be logged in. To do that, they must have an existing account by creating one.
* Preconditions: None
* Dependencies: If valid, account information gets saved in to the database.

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1.1 | Click on register button |  | Redirected to register form page | As expected |  |  |
| 1.2 | Enter your account information | Any alphabets or digits |  | As expected |  |  |
| 1.3 | Click on register button |  | Redirected to the homepage | As expected | Account is registered |  |
| 2.1 | Click the register button |  | Redirected to register form page | As expected |  |  |
| 2.2 | Enter invalid account information | Symbols such as . or ! |  | As expected |  |  |
| 2.3 | Click on register button |  | An error message pops up indicating the user to enter valid information | As expected |  |  |

### 2. Test Title: User Login

#### Executed by:

#### SRS Section Id: 3.2

* Description: To access the application features, a must be log in.
* Preconditions: An account must exist
* Dependencies: Verify the log in info with the one in database. On success, user gets access to the application features. Otherwise, a user must create an account to use the application.

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1.1 | Click on login button |  | Redirected to the login form page | As expected |  |  |
| 1.2 | Enter your account information | Information that was used to register the account |  | As expected |  |  |
| 1.3 | Click on login button |  | Redirected to the homepage and account is registered | As expected |  |  |
| 2.1 | Click the login button |  | Redirected to login form page | As expected |  |  |
| 2.2 | Enter invalid account information | Account that has not been registered yet |  | As expected |  |  |
| 2.3 | Click on login button |  | An error message pops up saying that the username and password do not match | As expected |  |  |

### 3. Test Title: Create Vox Server

#### Executed by:

#### SRS Section Id: 3.3

* Description: To interact with another user, they both need to be in the same server. On way to do that is to create a vox server.
* Preconditions: User must be logged in.
* Dependencies: Database for holding server entries.

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1.1 | In the text box above the create button, enter your server name | Any character |  | As expected |  |  |
| 1.2 | Click on create server |  | A Popup appears indicating that server is created and server created | As expected |  |  |

### 4. Test Title: Chat on Servers

#### Executed by:

#### SRS Section Id: 3.4

* Description: If you need to interact with other users, you can do that by messaging them in the chat area.
* Preconditions: Must be/have an server
* Dependencies: Database for holding server entries.

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Login in with a valid account |  | Moved to the homepage | As expected |  |  |
| 2 | Click on an existing server |  | Moved to that server page | As expected |  |  |
| 3 | Click on the textbox | Enter any text | Message is sent and appears in the box above | As expected |  |  |
| 4 | Ask your friend in the same server to send you a message |  | Message appears on the box above | As expected |  |  |

### 5. Test Title: View/Edit Notebook

#### Executed by:

#### SRS Section Id: 3.5.1

* Description: A user may create notebooks for each server they are in. The contents of the notebook are saved by the user manually by clicking the save notebook button.
* Preconditions: The user must have an account and be part of a server.
* Dependencies: Database for holding notebook entries.

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Open notebook in server | User credentials and DB | The user should recieve their notes from the db if any | As expected |  |  |
| 2 | Edit notebook and make changes if needed |  |  | As expected |  | This step is optional since they may not have changes to make |
| 3 | Save notebook | Notebook entry will be sent to DB |  | As expected |  | POST on intitial save, UPDATE on saves after the intial |

### 6. Test Title: View Shared Notebook

#### Executed by:

#### SRS Section Id: 3.5.1

* Description: A user of a server may share their notebook with other users of the same server. When a notebook is shared it’s title is visible to all users in the server, and users can open the notebook in a readonly mode.
* Preconditions: A user must be part of a server and another user must have shared their notebook
* Dependencies: Database for holding notebook entries

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Open shared notebook in server | User credentials and DB | The user should recieve a copy of another person’s notes | As expected, unless there are two shared notebooks with the same name, then it only selects one of them |  | This may be outdated if the other user is updating their notes, the shared notebook won’t be updated until the person who shared the notebook saves it again. |
| 2 | View notes |  |  | As expected |  | READ ONLY on other user’s notes |
| 3 | Close notes/switch to other notes |  |  | As expected |  | A user can switch to another notebook, or click clear to start creating their own |

### 7. Test Title: Share Notebook with Server

#### Executed by:

#### SRS Section Id: 3.5.2

* Description: A user of a server may share their notebook with other users of the same server.
* Preconditions: A user must be part of a server
* Dependencies: Database for holding notebook entries

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Open notebook in server | User credentials and DB | To be able to see their notebook | As expected |  |  |
| 2 | Enable sharing |  | User clicks option to enable sharing on notebook | As expected |  |  |
| 3 | Update the contents and save |  | The shared notebook should be updated for other users. | As expected |  |  |

### 7. Test Title: Create/save Notebook

#### Executed by:

#### SRS Section Id: 3.5.2

* Description: A user of a server may create a notebook and save it.
* Preconditions: A user must be part of a server
* Dependencies: Database for holding notebook entries

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Open notepad |  | Notepad opens and the user can start typing notes | As expected |  |  |
| 2 | Save notepad | User, Server, Name, Contents | The notepad is saved into the database and pops up in your saved notebooks tab | As expected |  |  |
| 3 | Update the contents and save |  | The notebook is updated with the newly saved contents | As expected |  |  |

### 8. Test Title: Create Event

#### Executed by:

#### SRS Section Id: 3.6.1

* Description: If you instructor gives you an important due date for a project. You would probably want to mark that in a calendar.
* Preconditions: Must have an existing account
* Dependencies: Database for holding calendar events

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Login in with a valid account |  | Moved to the homepage | As expected |  |  |
| 2 | Hover over the day when your assignment is due |  | Cursor is on that day in the Calendar | Not functional |  |  |
| 3 | Click on add event button | Enter a description | Event gets saved in the calendar | As expected |  |  |

### 9. Test Title: Remove Event

#### Executed by:

#### SRS Section Id: 3.6.2

* Description: If your assignments due date has passed and you don’t want that event to exist in your calendar. It can be removed from the calendar.
* Preconditions: Must have an existing account and if the event is for a server then they must be the owner
* Dependencies: Database for holding the calendar events

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Login in with a valid account |  | Moved to the homepage | As expected |  |  |
| 2 | Click Remove Personal Event on homepage |  | Can see the existing personal events | As expected |  |  |
| 3 | Click on event you want to delete |  | Event is deleted from the calendar, changes must be refreshed | As expected |  |  |

### 10. Test Title: Remove Users

#### Executed by:

#### SRS Section Id: 3.7

* Description: There should be the ability to remove a user from a server
* Preconditions: Have users in a server other than the owner and be the owner of the server
* Dependencies: Database containing the server information

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Go to server | User credentials and DB | To see the users of a server | As expected |  |  |
| 2 | Click Remove Users in hamburger menu |  | See existing members of the server except for the owner | As expected |  |  |
| 3 | Click user to remove from server |  | The user will no longer be able to chat in the server | As expected, but the user who was kicked can still interact in the server until refresh |  |  |

### 11. Test Title: Delete Server

#### Executed by:

#### SRS Section Id: 3.8

* Description: If the server you created is no longer needed then you can delete it.
* Preconditions: Server must exist already and user must be the owner
* Dependencies: Database for holding the server information and it’s users information

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Login into your account |  | Moved to the homepage | As expected |  |  |
| 2 | Click on a server that you created |  | Moved to that server page | As expected |  |  |
| 3 | Click on the delete button in hamburger menu | Confirmation for deletion | Server is deleted | As expected |  |  |

### 12. Test Title: Invite User to server

#### Executed by:

#### SRS Section Id: 3.9

* Description: If you want to invite your friend to your gaming server, and talk about new games. This can simple be done by sharing your invite code.
* Preconditions: A user can only invite if they are the server owner
* Dependencies: Database for holding the server information and your friends information.

| Step # | Test Step | Data | Expected | Actual | Status | Notes |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Login into your account |  | Moved to the homepage | As expected |  |  |
| 2 | Click on a server that you created |  | Moved to that server page | As expected |  |  |
| 3 | Click on invite button | The invite code | User has code copied to clipboard | As expected |  |  |
| 4 | Send Invite Code to friend |  | Friend can enter code and join your server | As expected |  |  |

## Non functional Requirements

### 13. SSL Certificate

* This will be tested by opening the webpage using HTTPS, if this doesn’t work then we know we do not have a SSL certificate for the webserver.

### 14. Response Time of < 500ms for Chat Messages

* This will be tested by running the webapp on two computers and checking the time it is sent to the time it is shown on the other computer. This is to check we are efficently dealing with database inserts and that websockets are functioning.