

# Project Part II: TopicHive

This project file contains html and js files for all the following pages:

- login: Users or admins log in using their email and password to access their respective dashboards.
- signup: Users can create a new account by providing their email, password, display name, first name, and last name.
- home: Displays chatrooms the user is a member of, with options to enter or leave chatrooms. Admins can manage users and chatrooms.
- browse\_chatrooms: Users can view a list of chatrooms they are not part of, along with the option to join them.
- chatroom: Users can view messages, send new messages, and interact with other participants within a specific chatroom.
- manage\_chatrooms: Admins can view all chatrooms, delete existing chatrooms, and create new chatrooms with a name and description.
- view\_users: Admins can view a list of all users, ban or unban users, and upgrade regular users to admins.

As well as java files:

- MakeBookClubDB: Initializes and sets up the database schema for the application, including creating tables such as USERS, CHATROOMS, MESSAGES, and USERTOCHATROOM.
- MyServer: Serves as the backend logic handler for the application, managing user authentication, chatroom interactions, admin functionalities, and database operations through defined actions.
- MyServlet: Acts as the central controller, handling HTTP requests and coordinating actions like user authentication, chatroom management, message handling, and database interactions based on client inputs.

To run this project:

1. Ensure that your h2 database is running

Run the database server in 1 terminal. We did the previous exercise and Assignment.  
Go to Desktop/myserver/h2

Code to run

```
java -cp h2.jar org.h2.tools.Server -tcp -pg
```

```
Last login: Fri Dec 6 16:03:58 on ttys001
dog@Doggys-MacBook-Pro ~ % java -cp h2.jar org.h2.tools.Server -tcp -pg
Error: Could not find or load main class org.h2.tools.Server
Caused by: java.lang.ClassNotFoundException: org.h2.tools.Server
dog@Doggys-MacBook-Pro ~ % cd Desktop/myserver
dog@Doggys-MacBook-Pro myserver % cd h2
dog@Doggys-MacBook-Pro h2 % java -cp h2.jar org.h2.tools.Server -tcp -pg
TCP server running at tcp://localhost:55063 (only local connections)
PG server running at pg://localhost:55066 (only local connections)
```

2. Compile and run MakeTopicHiveDatabase.java

```
dog@Doggys-MacBook-Pro ProjectPart2 % java MakeTopicHiveDatabase

Rows from USERS:
Row: admin1@topichive.com admin1 password Big Guy FALSE TRUE
Row: admin2@topichive.com admin2 password Sohil Khan FALSE TRUE
Row: user1@gmail.com user1 1234 Shyama Arunachalam FALSE FALSE
Row: user2@gmail.com user2 787878 Liki Singh FALSE FALSE
Row: user3@gmail.com user3 787878 Shejal Pradhan FALSE FALSE
Row: user4@gmail.com user4 12345 Shalval Prakash FALSE FALSE
Row: user5@gmail.com user5 12345 Dhanush Reddy TRUE FALSE
Row: user6@gmail.com user6 12345 Abhi Gowda FALSE FALSE

Rows from CHATROOMS:
Row: 1 PETROLHEADS Cause life is too short to drive slow!
Row: 2 PETCARE Bow-wow Meow-meow
Row: 3 CAREER ADVICE For all them $500k FAANG offers
Row: 4 RUNNING GEEKS Run fast, run far. Run like Forrest!
Row: 5 WEIGHTLIFTERS Light weight Baby!
Row: 6 SCIENCE & TECH Get your nerd hat on!!
Row: 7 HOME BUYING & SELLING Fancy villas and beachside... er, 1 bed condos

Rows from MESSAGES:
Row: 1 2024-11-30 10:00:00.0 Hey, heard Jaguar just rebranded. What do you think of their new logo. Looks sick! 1 user3@gmail.com FALSE
Row: 2 2024-11-30 10:15:00.0 Does anyone have tips for training a new puppy? 2 user2@gmail.com FALSE
Row: 3 2024-11-30 11:15:00.0 Jaguar just rebranded. Loving the sleek new logo! 1 admin2@topichive.com FALSE
Row: 4 2024-11-30 11:30:00.0 Tesla is releasing a Cybertruck update next week! 1 user1@gmail.com FALSE
Row: 5 2024-11-30 11:40:00.0 My cat loves this new brand of treats. Any recommendations for toys? 2 user3@gmail.com FALSE
Row: 6 2024-11-30 13:01:00.0 How do you prepare for a technical interview at Google? 3 user5@gmail.com FALSE
Row: 7 2024-11-30 15:20:00.0 What are the best mortgage rates currently available? 7 user4@gmail.com FALSE
Row: 8 2024-11-30 15:20:00.0 How do you decide between renting and buying? 7 admin2@topichive.com FALSE
Row: 9 2024-11-30 16:00:00.0 What's your favorite marathon training plan? 4 user5@gmail.com FALSE
Row: 10 2024-11-30 16:15:00.0 Any advice for a fresh grad entering the job market in 2024? 3 user2@gmail.com FALSE
Row: 11 2024-11-30 16:30:00.0 Are certifications like AWS worth pursuing for a mid-level developer? 3 user3@gmail.com FALSE
Row: 12 2024-11-30 17:20:00.0 How do you avoid shin splints when running daily? 4 user4@gmail.com FALSE
Row: 13 2024-11-30 17:40:00.0 What's the best running shoe for flat feet? 4 user1@gmail.com FALSE
Row: 14 2024-11-30 18:20:00.0 Does anyone have tips for improving bench press form? 5 admin2@topichive.com FALSE
Row: 15 2024-11-30 18:40:00.0 How often should you train legs in a week? 5 user3@gmail.com FALSE
Row: 16 2024-11-30 19:00:00.0 Quantum computing seems to be making progress. Thoughts? 6 user1@gmail.com FALSE
Row: 17 2024-11-30 19:40:00.0 What's the best way to keep rabbits cool during summer? 2 user2@gmail.com FALSE
Row: 18 2024-11-30 20:00:00.0 Is AI the biggest disruption since the internet? 6 user5@gmail.com FALSE
Row: 19 2024-11-30 20:01:00.0 What's the best way to stage a home for a quick sale? 7 user2@gmail.com FALSE
Row: 20 2024-11-30 20:10:00.0 How do you feel about the ethical concerns around CRISPR? 6 user4@gmail.com FALSE

Rows from USERTOCHATROOM:
Row: admin1@topichive.com 1
```

3. Compile and run MyServer.java

```

dog@Doggys-MacBook-Pro ProjectPart2 % javac MyServer.java
dog@Doggys-MacBook-Pro ProjectPart2 % java MyServer
2024-12-09 21:56:34.427:INFO::main: Logging initialized @55ms to org.eclipse.jetty.util.log.StdErrLog
MyBCServlet: successful connection to H2 dbase
2024-12-09 21:56:34.538:INFO:oejs.Server:main: jetty-9.4.z-SNAPSHOT; built: 2018-08-30T13:59:14.071Z; git: 27208
684755d94a92186989f695db2d7b21ebc51; jvm 21+35-2513
2024-12-09 21:56:34.546:INFO:oejsh.ContextHandler:main: Started o.e.j.s.h.ContextHandler@c8e4bb0{/,null,AVAILABLE}
2024-12-09 21:56:34.561:INFO:oejs.session:main: DefaultSessionIdManager workerName=node0
2024-12-09 21:56:34.561:INFO:oejs.session:main: No SessionScavenger set, using defaults
2024-12-09 21:56:34.562:INFO:oejs.session:main: node0 Scavenging every 600000ms
2024-12-09 21:56:34.564:INFO:oejsh.ContextHandler:main: Started o.e.j.s.ServletContextHandler@6279cee3{/,null,AVAILABLE}
2024-12-09 21:56:34.573:INFO:oejs.AbstractConnector:main: Started ServerConnector@2f7c2f4f{HTTP/1.1,[http/1.1]}{0.0.0.0:40111}
2024-12-09 21:56:34.574:INFO:oejs.Server:main: Started @207ms
Webserver started, ready for browser connections

```

4. visit localhost:40111/login.html in your browser

The screenshot shows a web browser window with the address bar displaying 'localhost:40111/login.html'. The page content is a login form titled 'Login to TopicHive'. It contains two input fields: 'Email:' with a placeholder 'Enter your email' and 'Password:' with a placeholder 'Enter your password'. Below these fields is a dark grey 'Login' button. At the bottom, there is a link 'Don't have an account?' followed by a green 'Sign Up' button.

List of functionality test cases for my project, all of which I have personally tested:

- ❖ **Login Page**

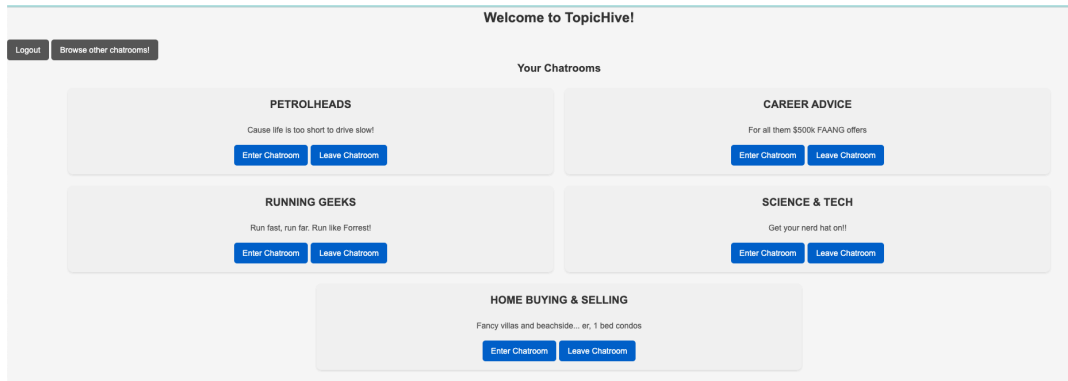
- Verify that users/admin can log in using valid email and password.

A screenshot of a web browser displaying the login page for TopicHive. The browser's address bar shows 'localhost:40111/login.html'. The page has a title 'Login to TopicHive'. Below the title, there are two input fields: 'Email:' with the value 'user1@gmail.com' and 'Password:' with masked characters '....'. A dark grey 'Login' button is highlighted with a red rectangular border. Below the button, there is a link 'Don't have an account?' and a green 'Sign Up' button.

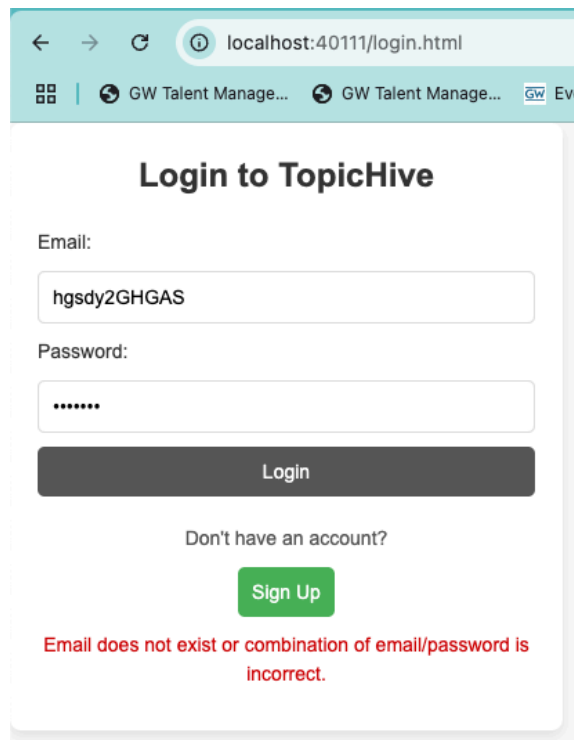
- Ensure that blocked users receive a message: "You have been blocked from TopicHive! To know why, please contact the admin."

A screenshot of the same TopicHive login page, but with a different email address 'user5@gmail.com' entered in the 'Email:' field. The 'Password:' field is also masked with '.....'. The 'Login' button is now a standard dark grey button without a red border. Below the 'Sign Up' button, a red error message is displayed: 'You have been blocked from TopicHive! To know why, please contact the admin at admin1@topichive.com'.

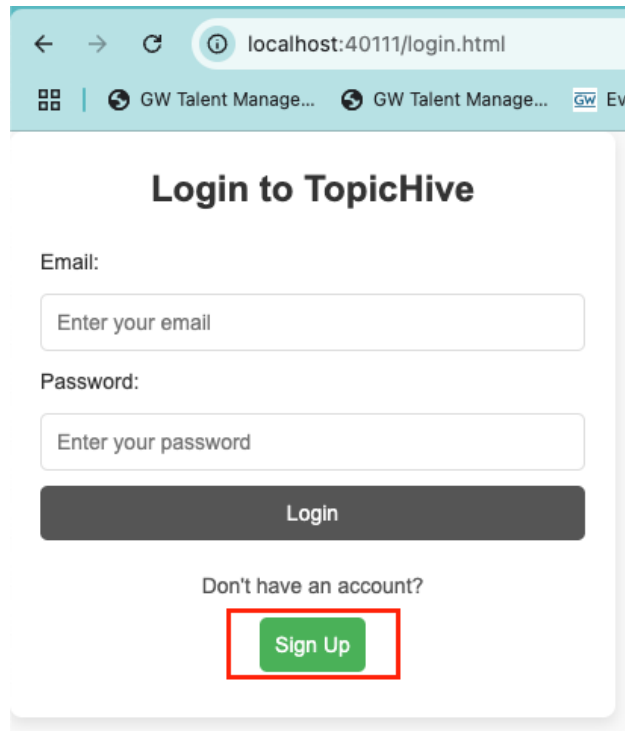
- Test redirection to the Home Page upon successful login.



- Ensure incorrect credentials display an error: "Email does not exist or combination of email/password is incorrect."



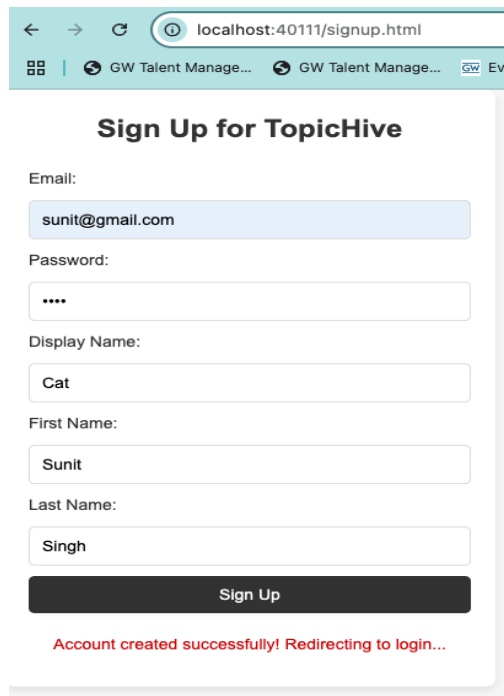
- Verify that the Sign-Up button redirects to the Sign-Up Page.



A screenshot of a web browser showing the login page for TopicHive. The browser's address bar displays 'localhost:40111/login.html'. The page has a white background with a dark grey header. The main heading is 'Login to TopicHive'. Below it, there are two input fields: 'Email:' with a placeholder 'Enter your email' and 'Password:' with a placeholder 'Enter your password'. A dark grey 'Login' button is positioned below the password field. Underneath the button, the text 'Don't have an account?' is displayed, followed by a green 'Sign Up' button which is highlighted with a red rectangular border.

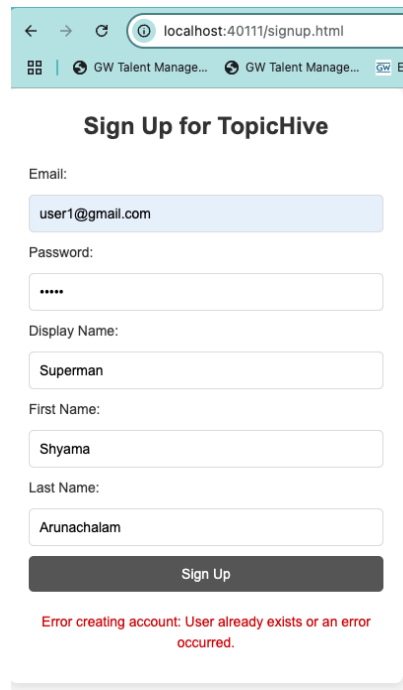
## ❖ Sign-Up Page

- Verify that users can successfully create an account by providing valid inputs (email, password, display name, first name, last name).



A screenshot of a web browser showing the sign-up page for TopicHive. The browser's address bar displays 'localhost:40111/signup.html'. The page has a white background with a dark grey header. The main heading is 'Sign Up for TopicHive'. Below it, there are five input fields: 'Email:' with the value 'sunit@gmail.com', 'Password:' with masked characters '....', 'Display Name:' with the value 'Cat', 'First Name:' with the value 'Sunit', and 'Last Name:' with the value 'Singh'. A dark grey 'Sign Up' button is positioned below the last name field. At the bottom of the form, a red message states 'Account created successfully! Redirecting to login...'.

- Ensure that duplicate email registration is prevented with an appropriate error message.



localhost:4011/signup.html

GW Talent Manage... GW Talent Manage... GW E

### Sign Up for TopicHive

Email:

user1@gmail.com

Password:

\*\*\*\*

Display Name:

Superman

First Name:

Shyama

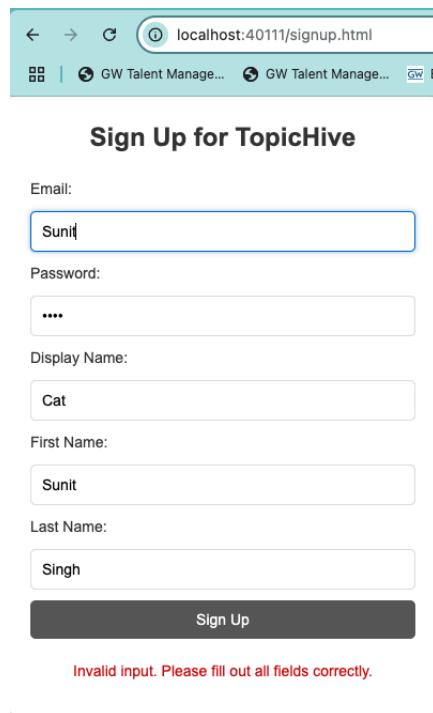
Last Name:

Arunachalam

Sign Up

Error creating account: User already exists or an error occurred.

- Validate input fields for proper format (e.g., email format, non-empty fields).



localhost:4011/signup.html

GW Talent Manage... GW Talent Manage... GW E

### Sign Up for TopicHive

Email:

Sunit

Password:

\*\*\*\*

Display Name:

Cat

First Name:

Sunit

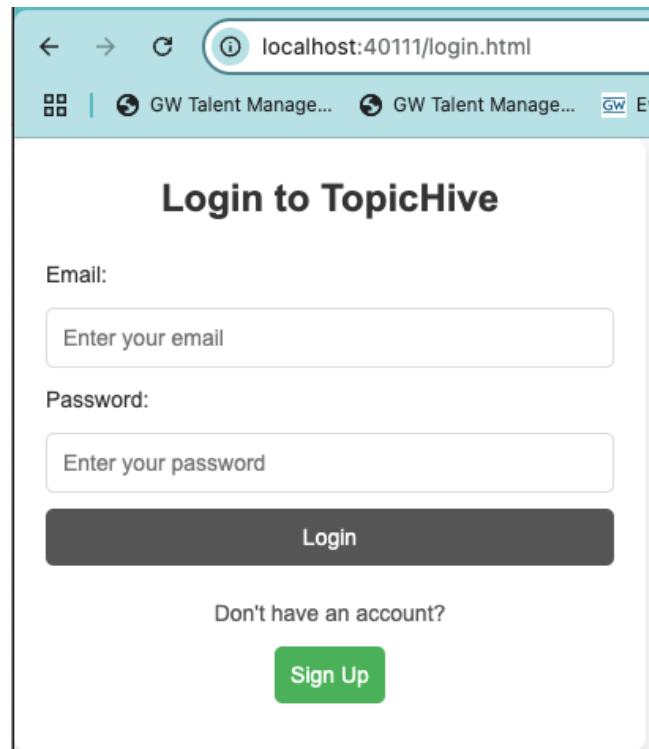
Last Name:

Singh

Sign Up

Invalid input. Please fill out all fields correctly.

- Confirm successful registration redirects users to the Login Page.

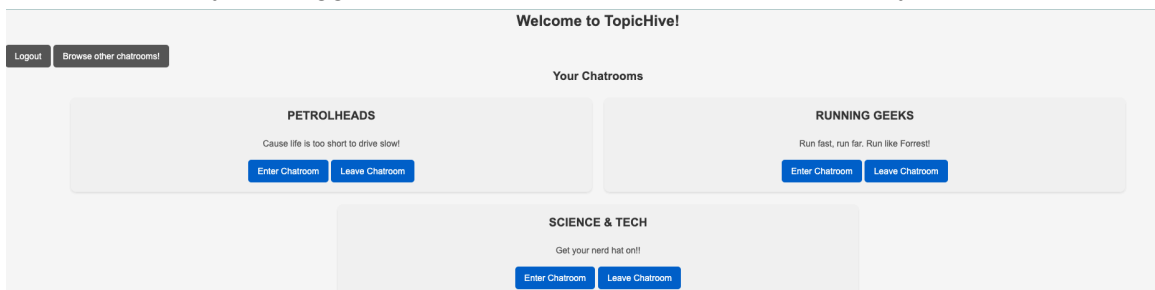


A screenshot of a web browser showing the login page for TopicHive. The browser's address bar displays 'localhost:40111/login.html'. The page has a light blue header with navigation links: 'GW Talent Manage...' and 'GW Talent Manage...'. The main content area is white and features the title 'Login to TopicHive' in bold. Below the title, there are two input fields: 'Email:' with a placeholder 'Enter your email' and 'Password:' with a placeholder 'Enter your password'. A dark grey 'Login' button is positioned below the password field. At the bottom, there is a link 'Don't have an account?' followed by a green 'Sign Up' button.

## ❖ Home Page

For Users:

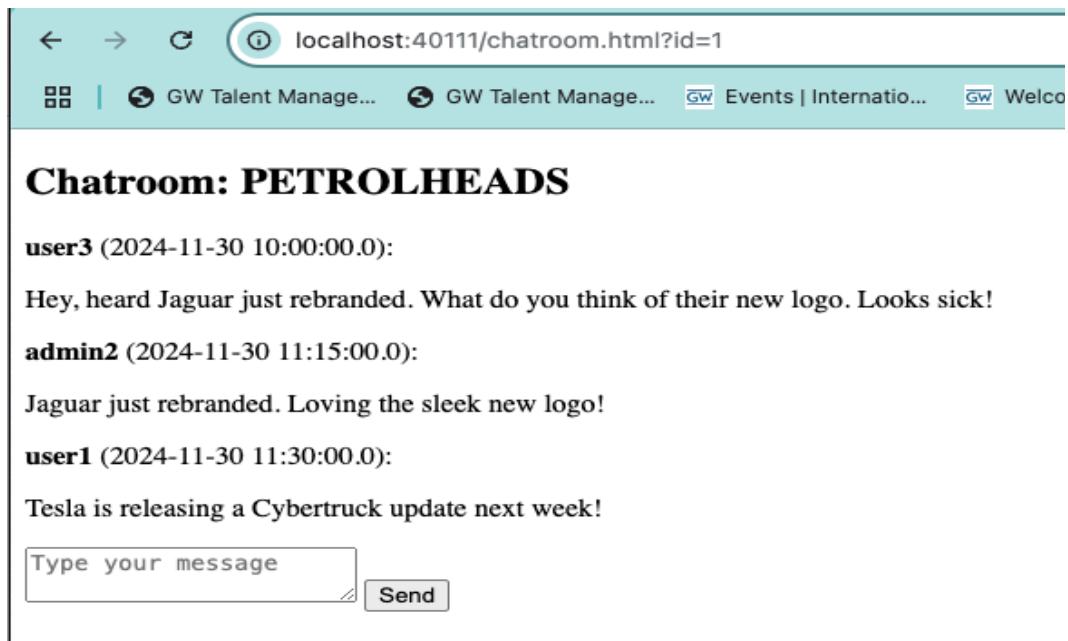
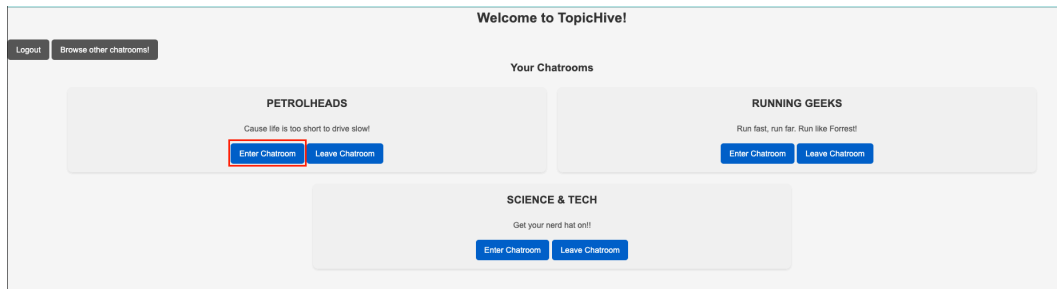
- Verify that logged-in users can see a list of chatrooms they are part of.



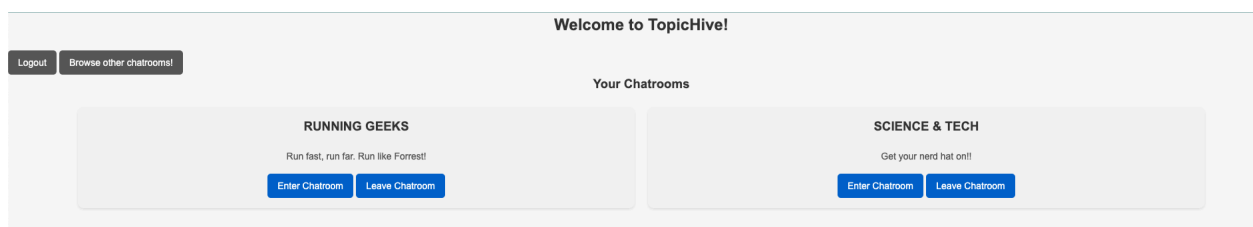
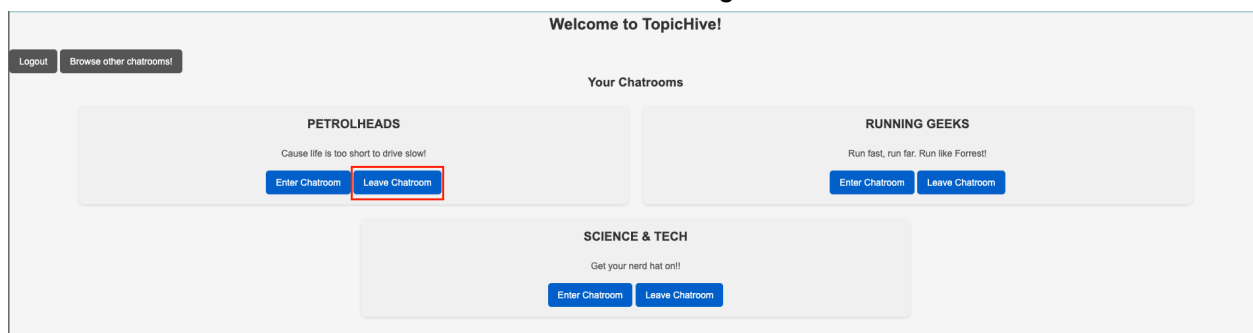
A screenshot of the TopicHive home page for a logged-in user. The page has a light blue header with the text 'Welcome to TopicHive!'. Below the header, there are two buttons: 'Logout' and 'Browse other chatrooms!'. The main content area is white and features the title 'Your Chatrooms'. Below the title, there are three chatroom cards. The first card is for 'PETROLHEADS' with the tagline 'Cause life is too short to drive slow!' and buttons 'Enter Chatroom' and 'Leave Chatroom'. The second card is for 'RUNNING GEEKS' with the tagline 'Run fast, run far. Run like Forrest!' and buttons 'Enter Chatroom' and 'Leave Chatroom'. The third card is for 'SCIENCE & TECH' with the tagline 'Get your nerd hat on!!' and buttons 'Enter Chatroom' and 'Leave Chatroom'.

- Ensure the Enter Chatroom button redirects to the respective Chatroom Page.

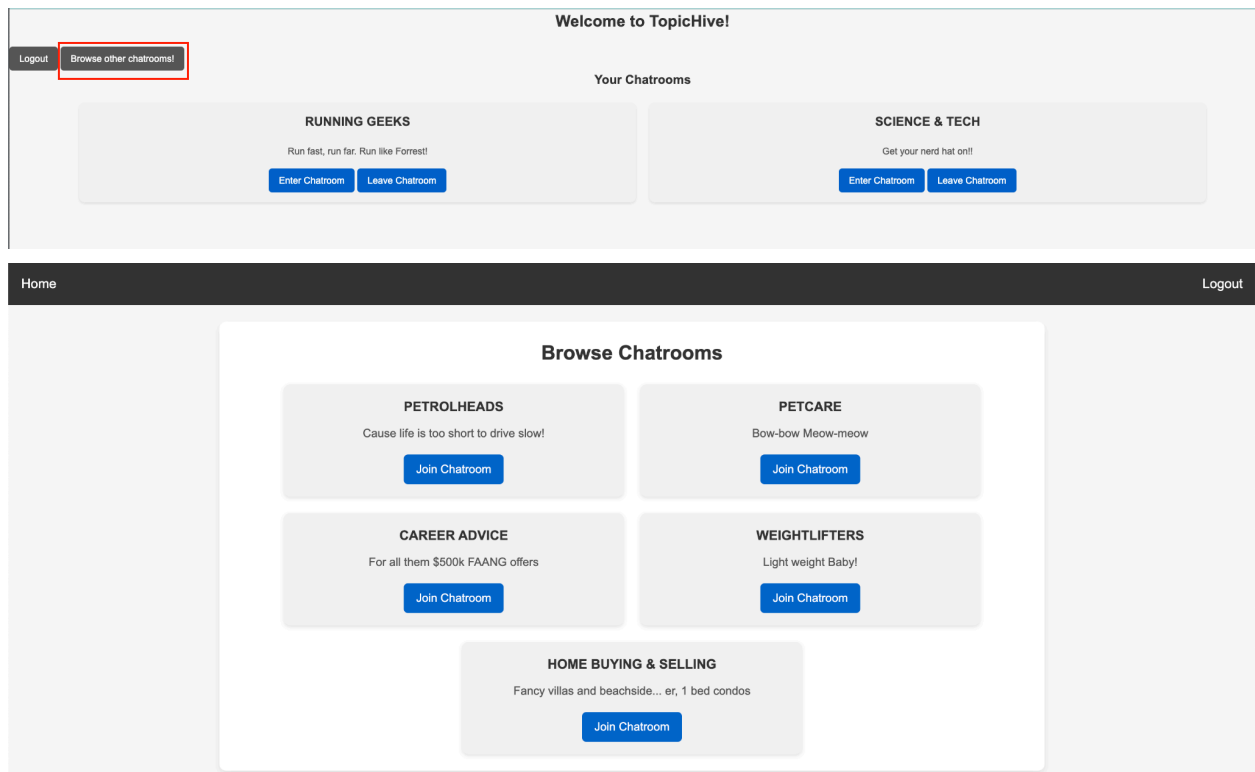




➤ Confirm users can leave chatrooms using the Leave Chatroom button.

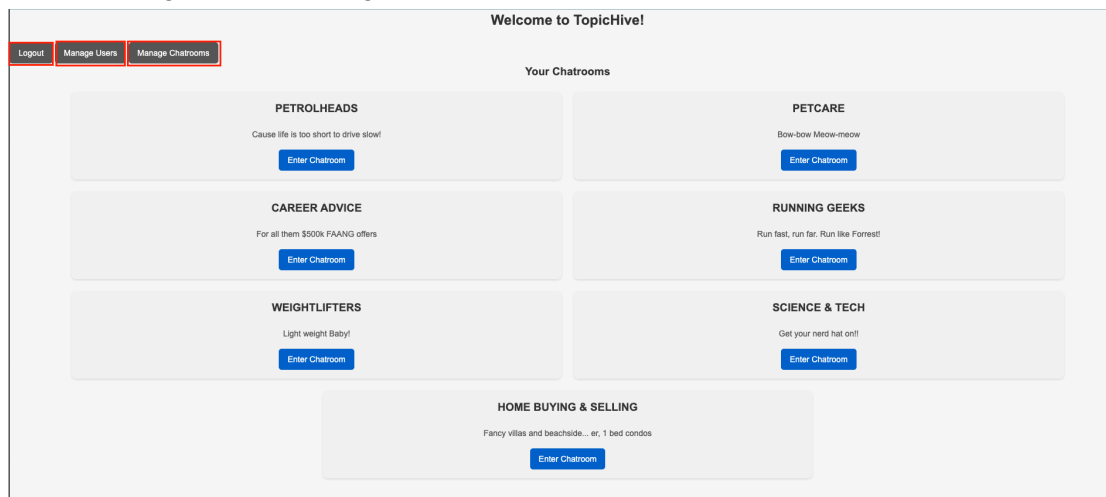


- Validate the Browse Chatrooms button redirects to the Browse Chatrooms Page.



For Admins:

- Ensure the admin sees options for Manage Users, Manage Chatrooms, and Logout in the navigation bar.



- Verify that clicking Manage Users redirects to the View Users Page.

| All Users            |              |            |             |        |   |
|----------------------|--------------|------------|-------------|--------|---|
| Email                | Display Name | First Name | Last Name   | Status | Actions   |
| admin1@topichive.com | admin1       | Big        | Guy         | Active |   |
| admin2@topichive.com | admin2       | Sohil      | Khan        | Active |   |
| user1@gmail.com      | user1        | Shyama     | Arunachalam | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user2@gmail.com      | user2        | Liki       | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user3@gmail.com      | user3        | Shejal     | Pradhan     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user4@gmail.com      | user4        | Shaival    | Prakash     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user5@gmail.com      | user5        | Dhanush    | Reddy       | Banned | <button>Remove Ban</button>                                 |
| user6@gmail.com      | user6        | Abhi       | Gowda       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| sunit@gmail.com      | Cat          | Sunit      | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |

- Validate that Manage Chatrooms redirects to the Manage Chatrooms Page.

Manage Chatrooms

Create New Chatroom

Name:

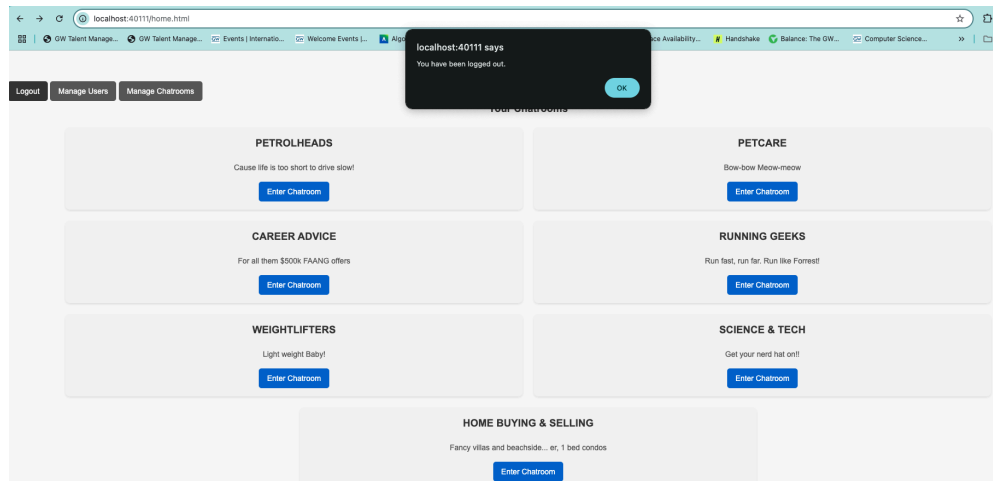
Description:

Create Chatroom

Existing Chatrooms

| Name                  | Description                                    | Actions                          |
|-----------------------|--|----------------------------------|
| PETROLHEADS           | Cause life is too short to drive slow!         | <button>Delete Chatroom</button> |
| PETCARE               | Bow-wow Meow-meow                              | <button>Delete Chatroom</button> |
| CAREER ADVICE         | For all them \$500k FAANG offers               | <button>Delete Chatroom</button> |
| RUNNING GEEKS         | Run fast, run far. Run like Forrest!           | <button>Delete Chatroom</button> |
| WEIGHTLIFTERS         | Light weight Baby!                             | <button>Delete Chatroom</button> |
| SCIENCE & TECH        | Get your nerd hat on!!                         | <button>Delete Chatroom</button> |
| HOME BUYING & SELLING | Fancy villas and beachside... er, 1 bed condos | <button>Delete Chatroom</button> |

- Confirm the Logout button logs the admin out and redirects to the Login Page.



← → ↻ ⓘ localhost:40111/login.html

☰ | ⚙️ GW Talent Manage... ⚙️ GW Talent Manage... GW E

## Login to TopicHive

Email:

Password:

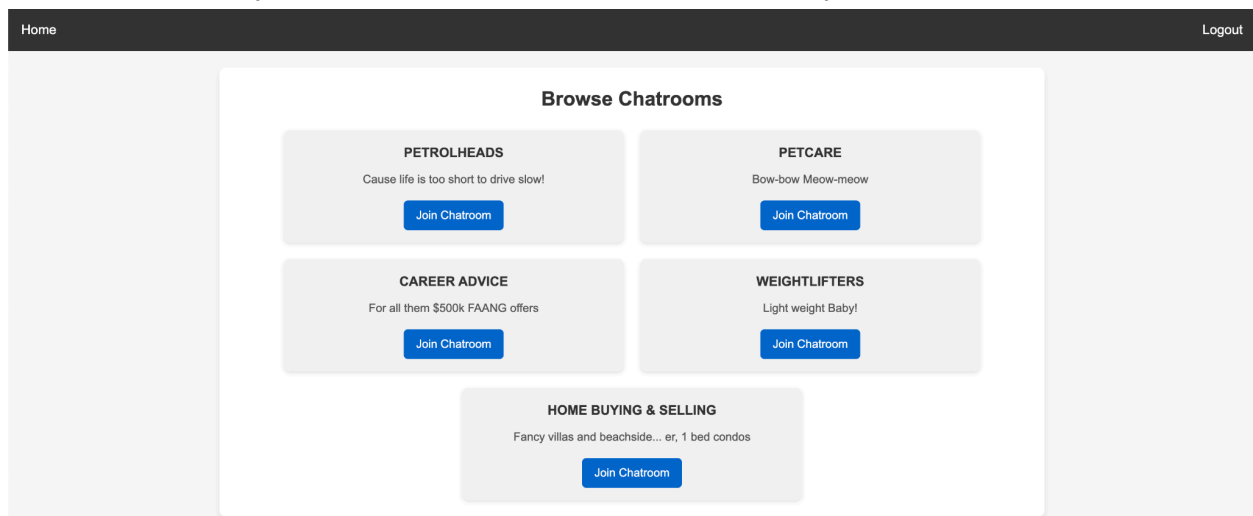
Login

Don't have an account?

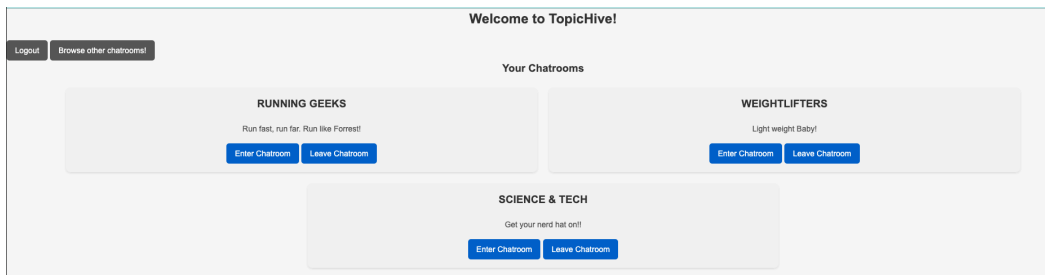
Sign Up

### ❖ Browse Chatrooms Page

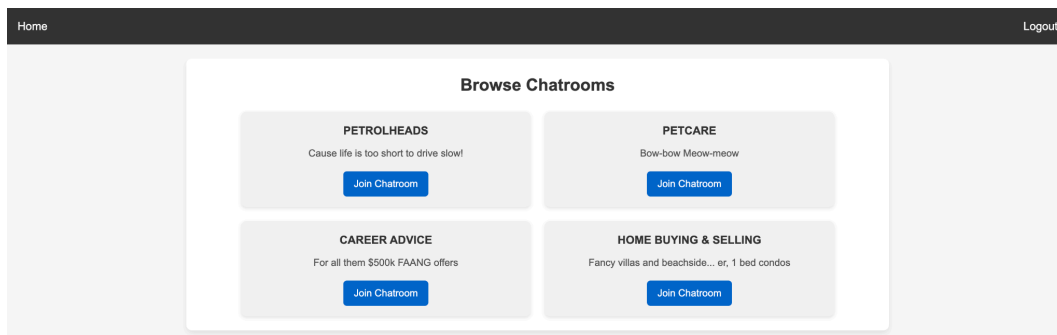
- Verify that users can view a list of chatrooms they are not part of.



- Confirm the Join Chatroom button successfully adds the user to the chatroom and redirects to the Home Page.

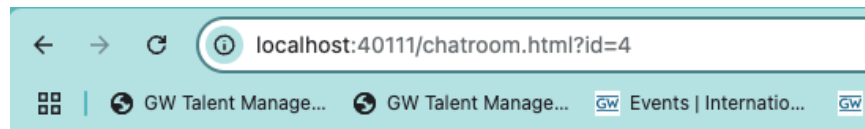


- Ensure only chatrooms the user is not part of are displayed.



## ❖ Chatroom Page

- Verify that users can see all messages in the chatroom, sorted chronologically.



### Chatroom: RUNNING GEEKS

**user5** (2024-11-30 16:00:00.0):

What's your favorite marathon training plan?

**user4** (2024-11-30 17:20:00.0):

How do you avoid shin splints when running daily?

**user1** (2024-11-30 17:40:00.0):

What's the best running shoe for flat feet?

- Ensure users can send messages, which are displayed instantly in the chatroom.

## Chatroom: RUNNING GEEKS

**user5** (2024-11-30 16:00:00.0):

What's your favorite marathon training plan?

**user4** (2024-11-30 17:20:00.0):

How do you avoid shin splints when running daily?

**user1** (2024-11-30 17:40:00.0):

What's the best running shoe for flat feet?

Nike

Send

## Chatroom: RUNNING GEEKS

**user5** (2024-11-30 16:00:00.0):

What's your favorite marathon training plan?

**user4** (2024-11-30 17:20:00.0):

How do you avoid shin splints when running daily?

**user1** (2024-11-30 17:40:00.0):

What's the best running shoe for flat feet?

**user1** (2024-12-09 21:15:11.693):

Nike

Type your message

Send

- Validate that chatroom names are correctly displayed at the top.

## Chatroom: RUNNING GEEKS

**user5** (2024-11-30 16:00:00.0):

What's your favorite marathon training plan?

**user4** (2024-11-30 17:20:00.0):

How do you avoid shin splints when running daily?

**user1** (2024-11-30 17:40:00.0):

What's the best running shoe for flat feet?

**user1** (2024-12-09 21:15:11.693):

Nike

### ❖ Manage Chatrooms Page (Admin Only)

- Verify that admins can see a list of all existing chatrooms.

| Manage Chatrooms                               |  |  |
|--|--|--|
| Create New Chatroom                            |  |  |
| Name:  |  |  |
| Description:                                   |  |  |
| <input type="button" value="Create Chatroom"/> |  |  |
| Existing Chatrooms                             |  |  |
| Name   | Description                                    | Actions  |
| PETROLHEADS                                    | Cause life is too short to drive slow!         | <input type="button" value="Delete Chatroom"/> |
| PETCARE  | Bow-wow Meow-meow                              | <input type="button" value="Delete Chatroom"/> |
| CAREER ADVICE                                  | For all them \$500k FAANG offers               | <input type="button" value="Delete Chatroom"/> |
| RUNNING GEEKS                                  | Run fast, run far. Run like Forrest!           | <input type="button" value="Delete Chatroom"/> |
| WEIGHTLIFTERS                                  | Light weight Baby!                             | <input type="button" value="Delete Chatroom"/> |
| SCIENCE & TECH                                 | Get your nerd hat on!                          | <input type="button" value="Delete Chatroom"/> |
| HOME BUYING & SELLING                          | Fancy villas and beachside... er, 1 bed condos | <input type="button" value="Delete Chatroom"/> |

- Ensure the Delete Chatroom button successfully removes the chatroom and its messages.

Manage Chatrooms

Create New Chatroom

Name:

Description:

Create Chatroom

Existing Chatrooms

| Name                  | Description                                    | Actions         |
|-----------------------|--|-----------------|
| PETROLHEADS           | Cause life is too short to drive slow!         | Delete Chatroom |
| PETCARE               | Bow-bow Meow-meow                              | Delete Chatroom |
| CAREER ADVICE         | For all them \$500k FAANG offers               | Delete Chatroom |
| RUNNING GEEKS         | Run fast, run far. Run like Forrest!           | Delete Chatroom |
| WEIGHTLIFTERS         | Light weight Baby!                             | Delete Chatroom |
| SCIENCE & TECH        | Get your nerd hat on!!                         | Delete Chatroom |
| HOME BUYING & SELLING | Fancy villas and beachside... er, 1 bed condos | Delete Chatroom |
| Mental Health         | Your struggles do not define you               | Delete Chatroom |

Manage Chatrooms

Create New Chatroom

Name:

Description:

Create Chatroom

Existing Chatrooms

| Name                  | Description                                    | Actions         |
|-----------------------|--|-----------------|
| PETROLHEADS           | Cause life is too short to drive slow!         | Delete Chatroom |
| PETCARE               | Bow-bow Meow-meow                              | Delete Chatroom |
| CAREER ADVICE         | For all them \$500k FAANG offers               | Delete Chatroom |
| RUNNING GEEKS         | Run fast, run far. Run like Forrest!           | Delete Chatroom |
| WEIGHTLIFTERS         | Light weight Baby!                             | Delete Chatroom |
| SCIENCE & TECH        | Get your nerd hat on!!                         | Delete Chatroom |
| HOME BUYING & SELLING | Fancy villas and beachside... er, 1 bed condos | Delete Chatroom |

➤ Confirm admins can create a new chatroom by providing a name and description.

Manage Chatrooms

Create New Chatroom

Name:

Shopping Offers

Description:

The best things in life are purchased

Create Chatroom

Existing Chatrooms

| Name                  | Description                                    | Actions         |
|-----------------------|--|-----------------|
| PETROLHEADS           | Cause life is too short to drive slow!         | Delete Chatroom |
| PETCARE               | Bow-bow Meow-meow                              | Delete Chatroom |
| CAREER ADVICE         | For all them \$500k FAANG offers               | Delete Chatroom |
| RUNNING GEEKS         | Run fast, run far. Run like Forrest!           | Delete Chatroom |
| WEIGHTLIFTERS         | Light weight Baby!                             | Delete Chatroom |
| SCIENCE & TECH        | Get your nerd hat on!!                         | Delete Chatroom |
| HOME BUYING & SELLING | Fancy villas and beachside... er, 1 bed condos | Delete Chatroom |





## ❖ View Users Page (Admin Only)

- Verify that admins can see all users along with their email, display name, first name, last name, and status (Active/Banned).

| All Users            |              |            |             |        |   |
|----------------------|--------------|------------|-------------|--------|---|
| Email                | Display Name | First Name | Last Name   | Status | Actions   |
| admin1@topichive.com | admin1       | Big        | Guy         | Active |   |
| admin2@topichive.com | admin2       | Sohil      | Khan        | Active |   |
| user1@gmail.com      | user1        | Shyama     | Arunachalam | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user2@gmail.com      | user2        | Liki       | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user3@gmail.com      | user3        | Shejal     | Pradhan     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user4@gmail.com      | user4        | Shaival    | Prakash     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user5@gmail.com      | user5        | Dhanush    | Reddy       | Banned | <button>Remove Ban</button>                                 |
| user6@gmail.com      | user6        | Abhi       | Gowda       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| sunit@gmail.com      | Cat          | Sunit      | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |

- Ensure the Ban User button blocks users from accessing the platform.

| All Users            |              |            |             |        |   |
|----------------------|--------------|------------|-------------|--------|---|
| Email                | Display Name | First Name | Last Name   | Status | Actions   |
| admin1@topichive.com | admin1       | Big        | Guy         | Active |   |
| admin2@topichive.com | admin2       | Sohil      | Khan        | Active |   |
| user1@gmail.com      | user1        | Shyama     | Arunachalam | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user2@gmail.com      | user2        | Liki       | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user3@gmail.com      | user3        | Shejal     | Pradhan     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user4@gmail.com      | user4        | Shaival    | Prakash     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user5@gmail.com      | user5        | Dhanush    | Reddy       | Banned | <button>Remove Ban</button>                                 |
| user6@gmail.com      | user6        | Abhi       | Gowda       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| sunit@gmail.com      | Cat          | Sunit      | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |

| All Users            |              |            |             |        |   |
|----------------------|--------------|------------|-------------|--------|---|
| Email                | Display Name | First Name | Last Name   | Status | Actions   |
| admin1@topichive.com | admin1       | Big        | Guy         | Active |   |
| admin2@topichive.com | admin2       | Sohil      | Khan        | Active |   |
| user1@gmail.com      | user1        | Shyama     | Arunachalam | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user2@gmail.com      | user2        | Liki       | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user3@gmail.com      | user3        | Shejal     | Pradhan     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user4@gmail.com      | user4        | Shaival    | Prakash     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user5@gmail.com      | user5        | Dhanush    | Reddy       | Banned | <button>Remove Ban</button>                                 |
| user6@gmail.com      | user6        | Abhi       | Gowda       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| sunit@gmail.com      | Cat          | Sunit      | Singh       | Banned | <button>Remove Ban</button>                                 |

← → ↻ ⓘ localhost:40111/login.html

GW Talent Manage... GW Talent Manage... GW Ev...

## Login to TopicHive

Email:

sunit@gmail.com

Password:

....

Login

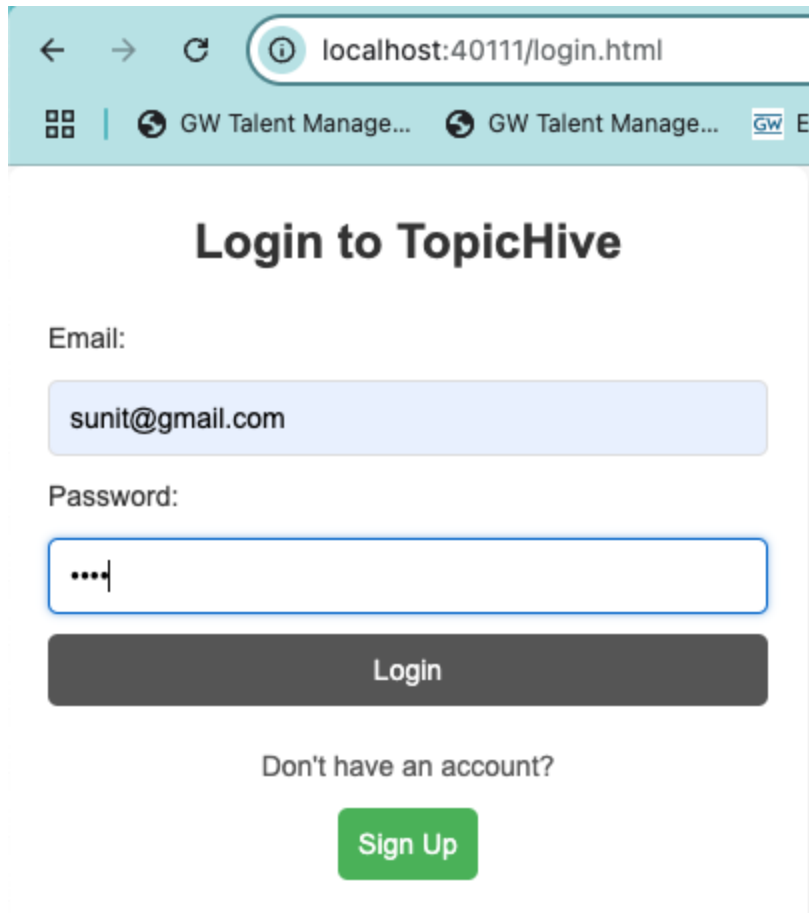
Don't have an account?

Sign Up

You have been blocked from TopicHive! To know why, please contact the admin at admin1@topichive.com

- Confirm that the Remove Ban button restores access for banned users.

| All Users            |              |            |             |        |                           |
|----------------------|--------------|------------|-------------|--------|---------------------------|
| Email                | Display Name | First Name | Last Name   | Status | Actions                   |
| admin1@topichive.com | admin1       | Big        | Guy         | Active |                           |
| admin2@topichive.com | admin2       | Sohil      | Khan        | Active |                           |
| user1@gmail.com      | user1        | Shyama     | Arunachalam | Active | Ban User Upgrade to Admin |
| user2@gmail.com      | user2        | Liki       | Singh       | Active | Ban User Upgrade to Admin |
| user3@gmail.com      | user3        | Shejal     | Pradhan     | Active | Ban User Upgrade to Admin |
| user4@gmail.com      | user4        | Shaival    | Prakash     | Active | Ban User Upgrade to Admin |
| user5@gmail.com      | user5        | Dhanush    | Reddy       | Banned | Remove Ban                |
| user6@gmail.com      | user6        | Abhi       | Gowda       | Active | Ban User Upgrade to Admin |
| sunit@gmail.com      | Cat          | Sunit      | Singh       | Banned | Remove Ban                |



A screenshot of a web browser showing the login page for TopicHive. The browser's address bar displays 'localhost:40111/login.html'. The page has a light blue header with navigation links: 'GW Talent Manage...', 'GW Talent Manage...', and 'GW Ev...'. The main content area is titled 'Login to TopicHive'. It contains two input fields: 'Email:' with the value 'sunit@gmail.com' and 'Password:' with masked characters '....'. Below these fields is a dark grey 'Login' button. Underneath the button is the text 'Don't have an account?' followed by a green 'Sign Up' button.

localhost:40111/login.html

GW Talent Manage... GW Talent Manage... GW Ev...

## Login to TopicHive

Email:

sunit@gmail.com

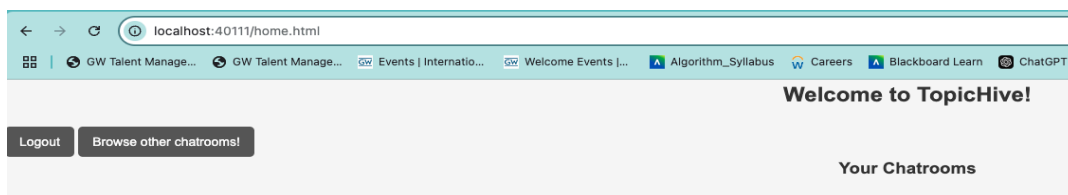
Password:

....

Login

Don't have an account?

Sign Up



- Validate that the Upgrade to Admin button upgrades a user to admin privileges and adds them to all chatrooms.

| All Users            |              |            |             |        |   |
|----------------------|--------------|------------|-------------|--------|---|
| Email                | Display Name | First Name | Last Name   | Status | Actions   |
| admin1@topichive.com | admin1       | Big        | Guy         | Active |   |
| admin2@topichive.com | admin2       | Sohil      | Khan        | Active |   |
| user1@gmail.com      | user1        | Shyama     | Arunachalam | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user2@gmail.com      | user2        | Liki       | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user3@gmail.com      | user3        | Shejal     | Pradhan     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user4@gmail.com      | user4        | Shaival    | Prakash     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user5@gmail.com      | user5        | Dhanush    | Reddy       | Banned | <button>Remove Ban</button>                                 |
| user6@gmail.com      | user6        | Abhi       | Gowda       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| sunit@gmail.com      | Cat          | Sunit      | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |

| All Users            |              |            |             |        |   |
|----------------------|--------------|------------|-------------|--------|---|
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| user1@gmail.com      | user1        | Shyama     | Arunachalam | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user2@gmail.com      | user2        | Liki       | Singh       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user3@gmail.com      | user3        | Shejal     | Pradhan     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user4@gmail.com      | user4        | Shaival    | Prakash     | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| user5@gmail.com      | user5        | Dhanush    | Reddy       | Banned | <button>Remove Ban</button>                                 |
| user6@gmail.com      | user6        | Abhi       | Gowda       | Active | <button>Ban User</button> <button>Upgrade to Admin</button> |
| sunit@gmail.com      | Cat          | Sunit      | Singh       | Active |   |

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localhost:4011/login.html

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🌐 GW Talent Manage...

🌐 GW Talent Manage...

📄 GW Ev

## Login to TopicHive

Email:

sunit@gmail.com

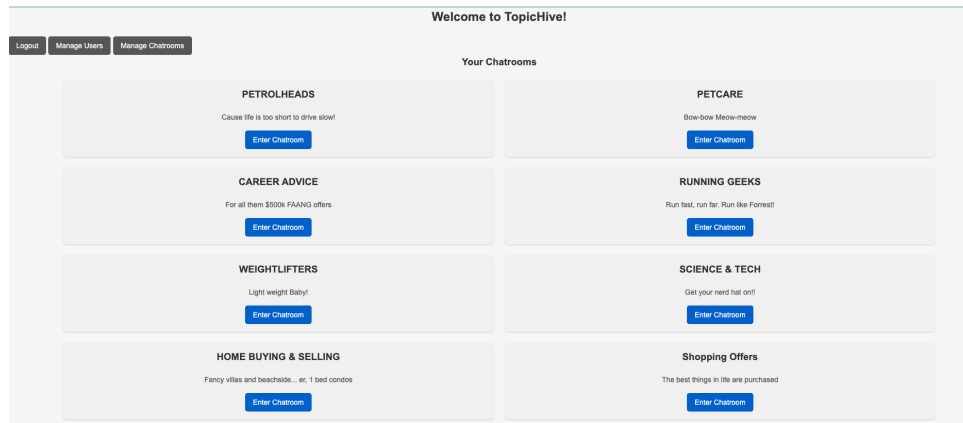
Password:

...

Login

Don't have an account?

Sign Up



## ❖ Logout Functionality

➤ Verify that the Logout button logs out users and redirects them to the Login Page.

