Technical and manual

Installation process

All dependencies for the project are easily accessible through two package.json files.
Namely client/package.json and server/package.json.

The installation process consists of three steps:

1. In the root folder of the project, **prog2053-ny,** open a terminal and navigate to the **client** folder and run the command: *npm i*

2. Navigate back to **prog2053-ny**, and step into the **server** folder. Yet again run the command *npm i*. After this step all dependencies will be applied to your local repository.

3. Finally, the application is built and initialized through ***docker-compose up -d*** while being in the root folder **prog2053-ny**.

In case of error messages during or after composing:

These steps should only be followed in the case of a misfired *docker-compose*. The leading paragraphs explains in detail how to manually install all required packets/dependencies from our project.

The client side requires:

NB! Navigate to the "client" folder inside the project.
Vaadin router
- We are using "Vaadin router" for front-end routing.
- **Installation**:
  a. Run the command: *npm install @vaadin/router --save*

The server side requires:

NB! Navigate to the "server" folder inside the project.
MYSQL:
- We are using the npm package "mysql" to communicate with our database
- **Installation**:
  a. Run the command: *npm install mysql --save*

MULTER:
- We are using the npm package "multer" for decoding formdata, in addition to uploading images.
- **Installation**:
  a. Run the command: *npm install multer --save*

CORS:
- We are using the npm package "cors" for authentication and verifying that requests to the back-end follows a rule set.
- **Installation**:
  ○ Run the command: *npm install cors --save*

FS
- We are using the npm package "FS" for file handling.

- **Installation**:
    a. Run the command: *npm install fs --save*

Randomstring:
- We are using the npm package "randomstring" for generating random file names when uploading pictures.
- **Installation**:
    a. Run the command: *npm install randomstring --save*

Express-session
- The npm package "express-session" is in coherence with cookie handling
- **Installation**:
    a. Run the command: *npm install express-session --save*

Bcryptjs
- The npm package "bcryptjs" is used to create hashed and "salted" passwords, in addition to comparing hashed passwords for authentication.
- **Installation**:
    ○ Run the command: *npm install bcryptjs --save*

Cookie-parser
- The npm package "cookie-parser" is used for handling cookies.
- **Installation**:
    ○ npm install cookie-parser --save

Body-parser
- The npm package "bodyparser" is used as middleware to parse some requests.
- **Installation**:
    ○ *npm install body-parser --save*

Validation of input:

User validation

email-address:
An email address can consist of: xxx [a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,63}$
username:
A username can consist of the characters (both capital and small letters) a-z , digits and the length can be from 2 to 63 characters
Password:
The password must be at least 8 characters long.

Profile picture validation

- A profile picture can only be a png or jpg file.

Create forum validation

A forum name can consist of the characters (both capital and small letters) a-z , digits and the length can be from 2 to 63 characters

Using the website

Homepage: http://localhost:8080/
Database: http://localhost:8082/

Test-Data:

We are providing 3 users which covers all use-cases of our application.

username	e-mail	password	usertype
Alpha	alpha@domain.com	Password1	admin
Bravo	bravo@domain.com	Password2	moderator
Charlie	charlie@domain.com	Password3	user

Use of the website

Register a new user

1. From the home page click on "First step is to register an account!"
2. You are directed to the register page:
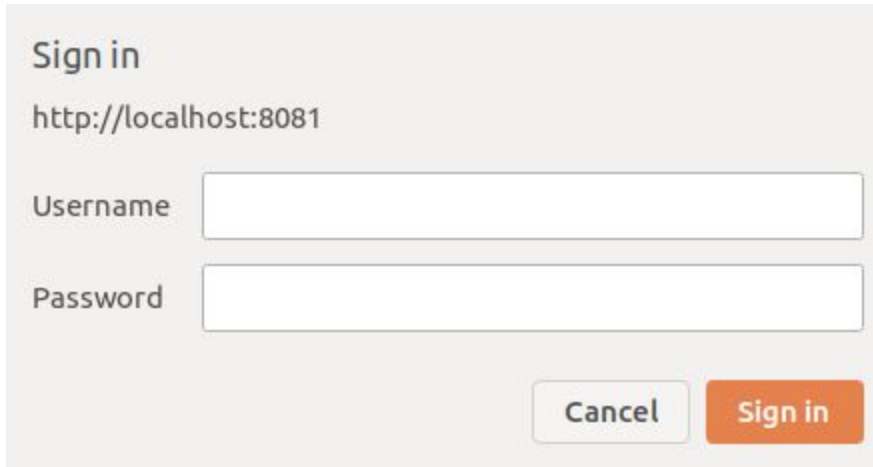
3. It is noteworthy that validation of input is implemented when registering a new user
4. Click register when you have filled all the data necessary to create and register a new user which can be viewed inside the database.
5. Based on the input you can get different results back: (It should pop up a alert box with the message)
    a. **User registered!** = user is registered correctly
    b. **Username exists!** = username already exist
    c. **User exist** = the email address already exist
    d. **input value not valid username, password mismatch** = the repeated email or password doesn't match each other
    e. **Username character not valid** = Invalid characters in username
    f. **Invalid characters in Email** = Email characters invalid
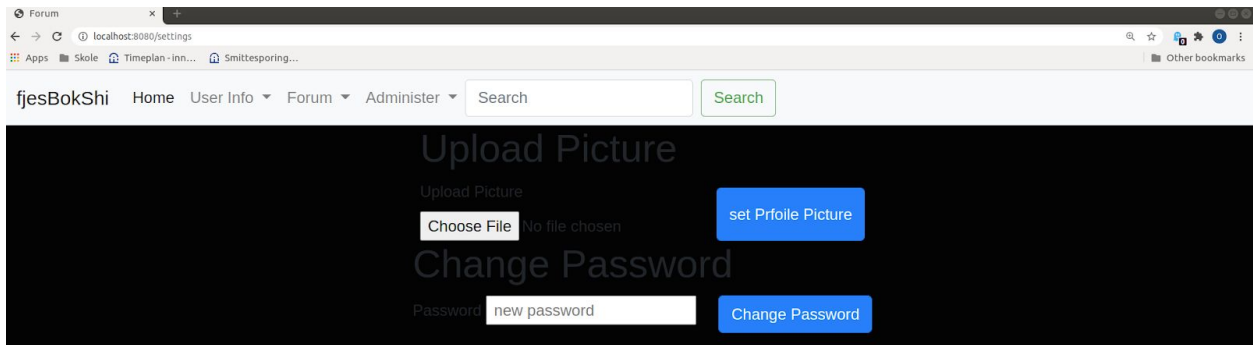
Login to the forum

1. We have chosen to implement a continuous authorization check into our application. In practice, you will be asked to login whenever you try to access a web-resource with content and functionalities depending on user privileges.
2. Naturally, a user is able to sign in from the home page. Simply click on "Secondly you can log into your account!" and a pop-up will appear.

Sign in
http://localhost:8081

Username [   ]

Password [   ]

Cancel   Sign in

3. Alternatively, the user can also sign in from the dropdown menu **User Info => login**
4. Add your username (**NOT your email)**. One should note that the input is case sensitive for both your username and password.
5. Consequently after filling out the form click on "Sign in".
6. Mismatching data between user input and database registers prohibits the user from gaining access to the web resource.
7. With a successful login, the user is redirected to the homepage.

Changing profile picture or password

Users are required to be signed in to gain access to the settings page.
1. Choose "User Info" from the navbar and click on "settings".

For changing the picture:
a. Click on "choose file" and select the picture to be uploaded as your profile picture.
b. Click on "set profile picture" to confirm your selection which updates the user database. **NB!** only *jpg* or *png* format of pictures are allowed.
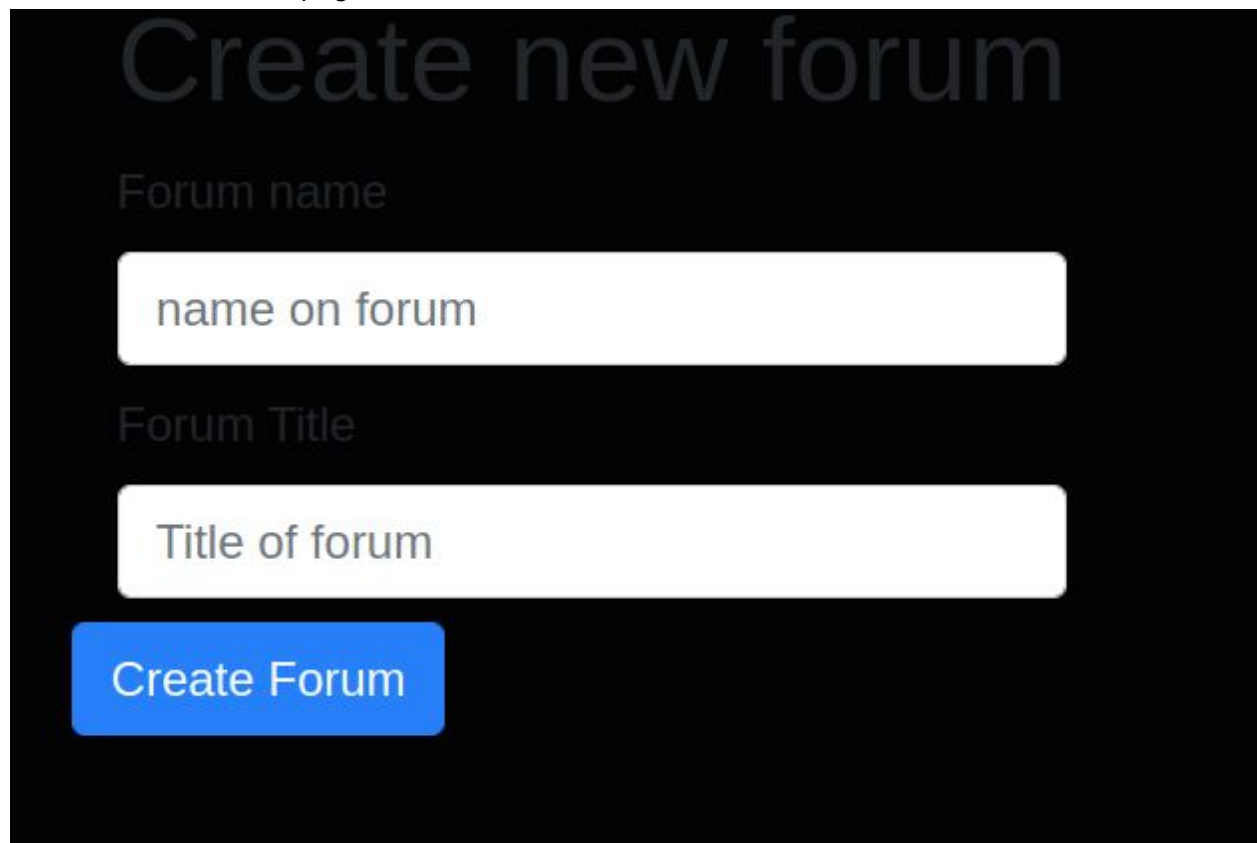
To change user password:
1. Type your new password in the password field
2. Click on button "Change password"

Create a new forum

You have to be signed to create a new forum.
1. From the homepage click on Forum located on the navbar and chose "Create forum"

2. Enter desired Forum name and Title and then press "Create forum"
3. A box should pop up:
   a. Forum Created = Forum created successfully
   b. Forum name already exist, please choose another one! = forum name already exist
   c. Title or name character not valid, can only contain 0-9,A-Z,a-z = Invalid character

Request Moderator as user

You have to be signed in as an normal user before proceeding,.
1. Click on the navbar on 'Administer' and then on request
2. Click on the red button "Request moderator status" as bellow:
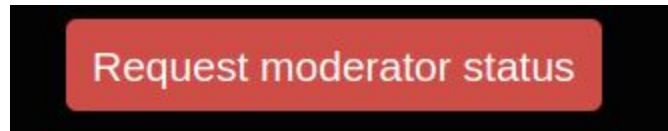
3. A message should pop up saying taht: "your request has been noticed!"

Accept or decline moderator request

You have to be logged into the system as administrator for accepting or decline moderator requests
1. On the navbar click on Administer and then on requests
2. You should see a list on all requests like the picture above:
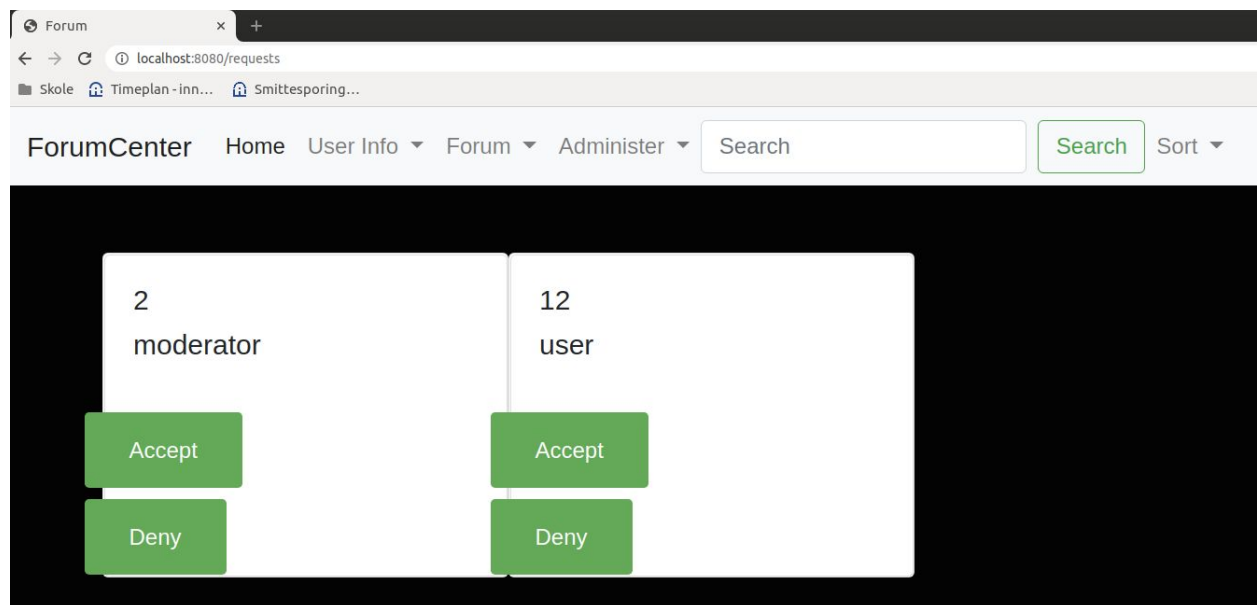
3. Click what you want, Accept for moderator and Deny for denying the request.

See all users:

You have to be logged in as moderator or administrator
1. Click on the nav bar -> Administer -> List of users
2. A list should show up wit all users:

See blocked posts / comments:

You have to be logged in as administrator

1. From the navbar click on administer -> blocked
2. A list of blocked content is listed, See screenshot above:
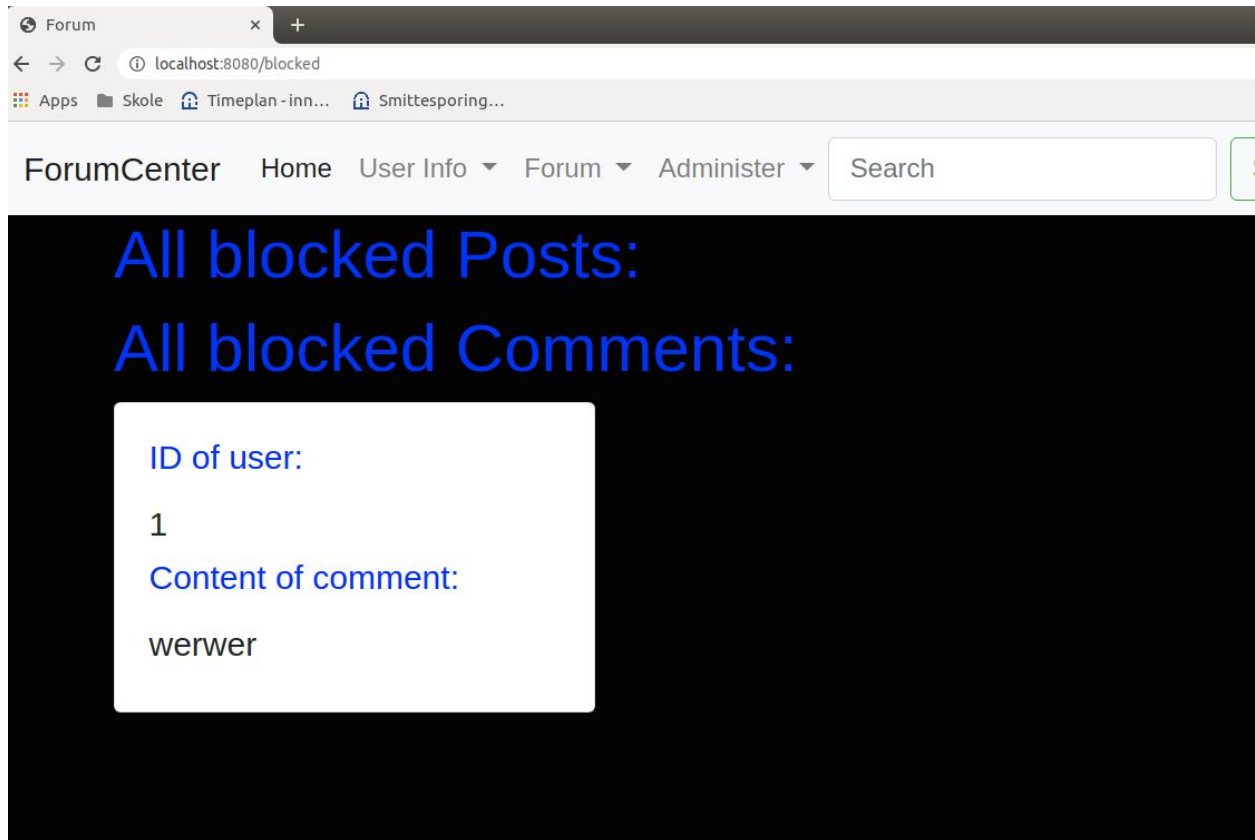
Delete or block comment or post:

1. Go to the post ore comment you want to delete
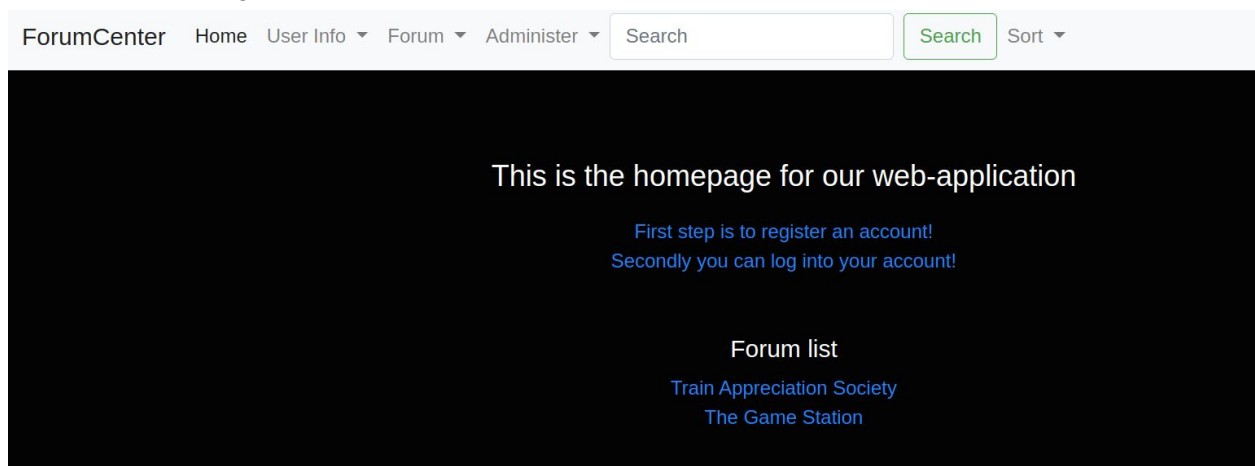2. Click on the A and select delete or block:

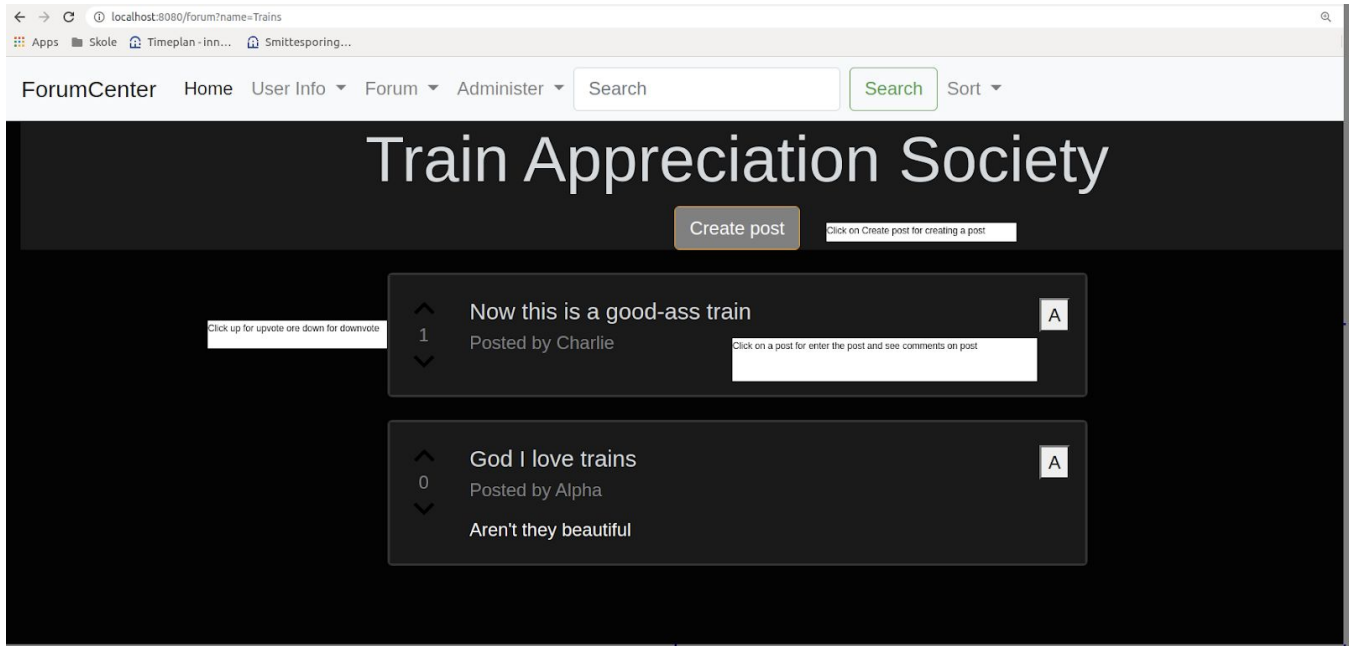See the Forum Navigation

Forum navigation

You have to be logged in to use the form functions properly

Navigate to a forum

From the homepage under Forum list, click on desired forum:

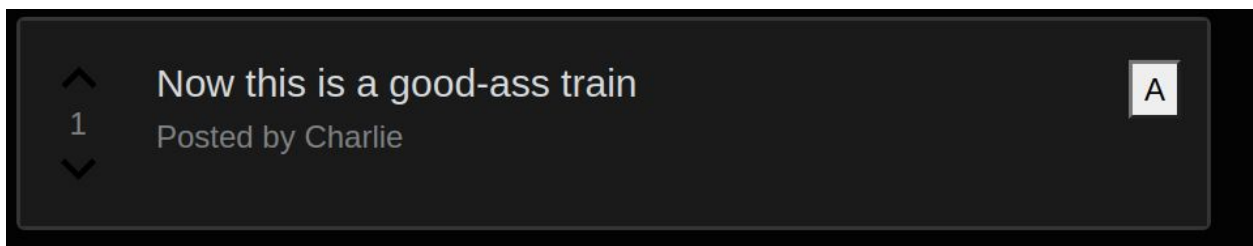From the main site on a specific forum:

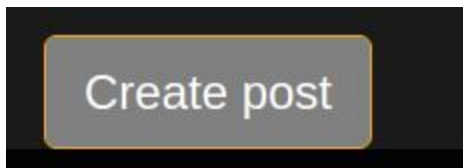From the specific forum you can do multiple actions as described in the picture above with the textboxes in.

For up ore down vote click on the arrows:

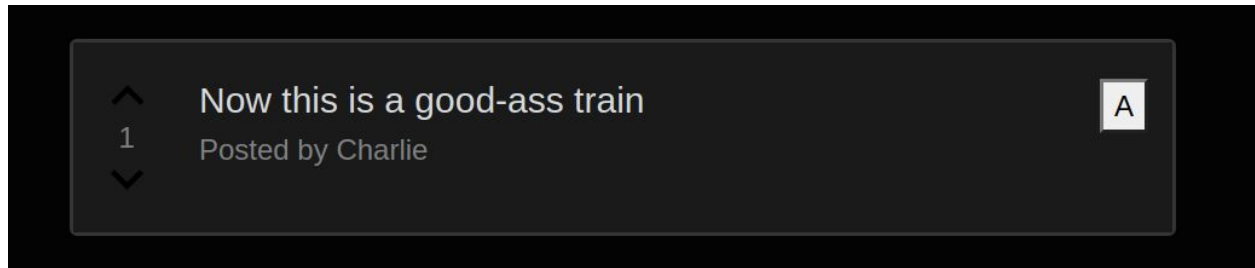**For entering a specific post click in the post box:**

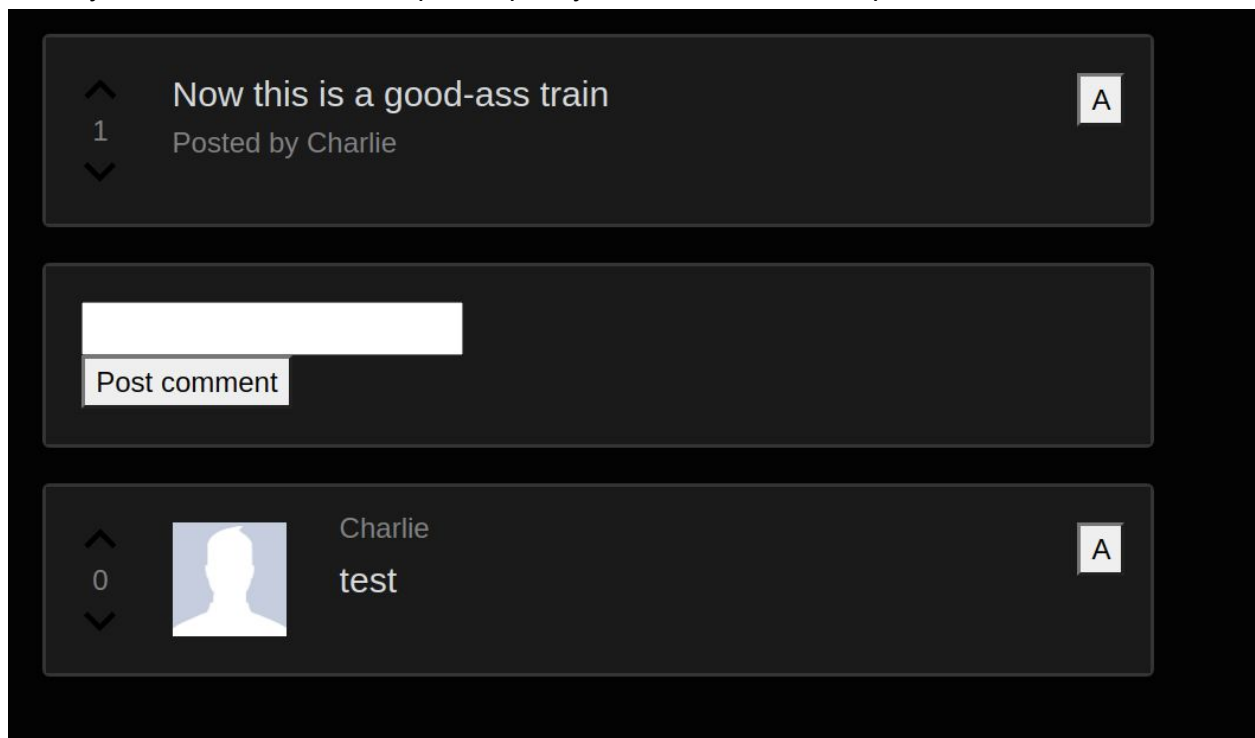**For creating a new post click on the button "Create post"**

See and comment on a post:

From the main page on the specific forum click on the specific post you want to see or comment on as shown bellow:

When you have clicked on the specific post you are directed to the post with comments:

Here you can see already that user Charlie have comment on the post. If you want to comment just type your comment in the white field and click on post comment. The comment will be

placed on the bottom as shown in the picture bellow:

Now this is a good-ass train

1

Posted by Charlie

A

[   ]

Post comment

Charlie

0

test

A

Charlie

0

Hello

A