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1 Technology choices

1.1 bootstrap

Client side components and responsive design.

1.2 highlight.js

Code snipped highlighting

1.3 react

Most familiar frontend framework

1.4 react-router

Client side routing

1.5 bcrypt

Password hashing

1.6 express

Easy to use

1.7 mongoose

Easy to use

1.8 jsonwebtoken

JWT Token signing and verification

1.9 multer

Handling multipart/form-data

2 Installation guidelines

2.1 Clone Repo

```
git clone https://github.com/mrleecock/webproject23.git
```

2.2 Installing dependencies

```
cd webproject23  
npm install
```

2.3 Building frontend

```
npm run build
```

3 User manual

3.1 Before running

Make sure that mongoDB is running and url is known

3.2 Running

Run 'npm start' in root directory. Three(3) environment variables needs to be set; PORT, MONGO_URL and JWT_SECRET

```
PORT=3000 MONGO_URL=mongodb://192.168.10.70:27017/testdb JWT_SECRET=jwtsecret npm start
```

Figure 1: Example

3.3 Using application

Open application in browser

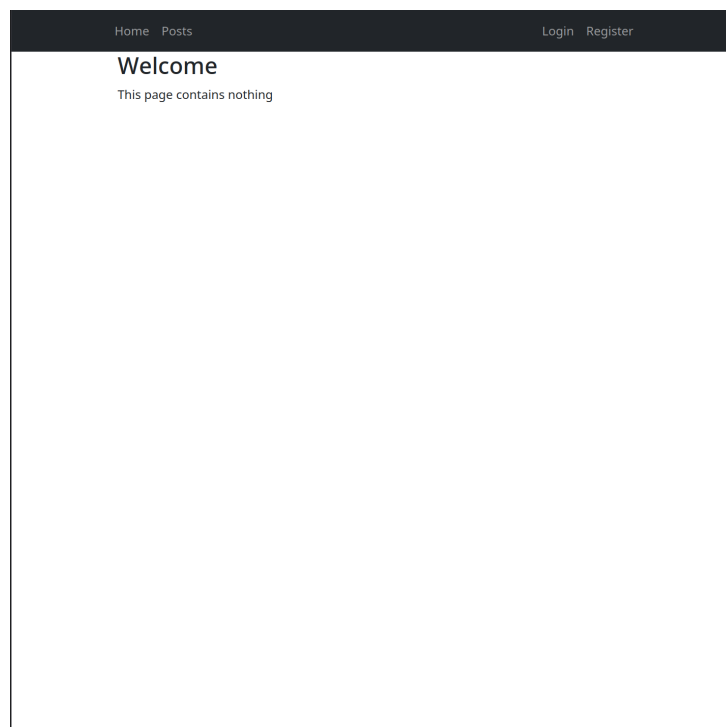
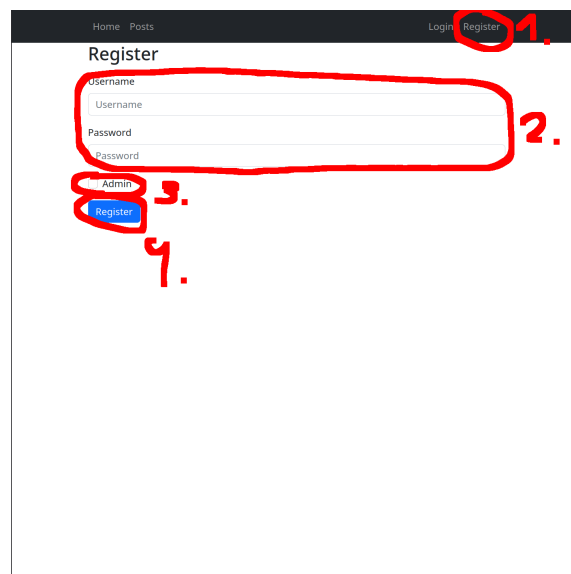


Figure 2: Home page

3.3.1 User registration

1. Navigate to 'Register' page
2. Fill username and password
3. If admin user check this checkbox
4. Click register button



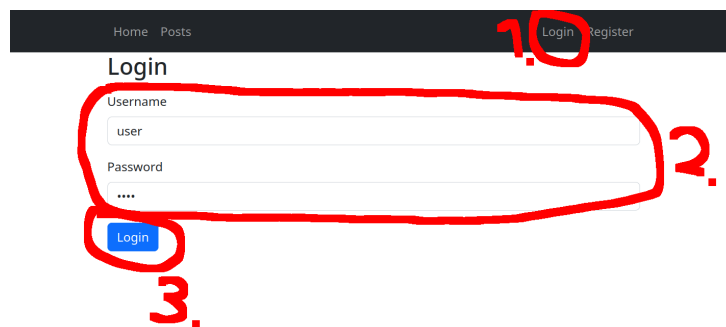
The screenshot shows a web application's 'Register' page. At the top, there is a dark navigation bar with links for 'Home', 'Posts', 'Login', and 'Register'. The 'Register' link is circled in red and labeled '1.'. Below the navigation bar, the page title 'Register' is displayed. The main content area contains a registration form with the following elements: a 'Username' label followed by two input fields (the first is circled in red and labeled '2.'), a 'Password' label followed by two input fields, and an 'Admin' checkbox which is checked and circled in red and labeled '3.'. Below the checkbox is a blue 'Register' button, which is also circled in red and labeled '4.'. The entire form area is enclosed in a red border.

Figure 3: Registration page

After succesful registration application will redirect user to login page.

3.3.2 Login

1. Navigate to 'Login' page
2. Fill username and password
3. Click login button



The image shows a web application's login page. At the top, there is a dark navigation bar with links for 'Home', 'Posts', 'Login', and 'Register'. The 'Login' link is circled in red with the number '1.' next to it. Below the navigation bar, the title 'Login' is displayed. Underneath, there are two input fields: 'Username' (containing the text 'user') and 'Password' (containing four dots). These two fields are enclosed in a large red oval with the number '2.' to its right. Below the password field is a blue 'Login' button, which is circled in red with the number '3.' below it.

Figure 4: Login Page

After succesful login application will redirect user to home page.

3.3.3 Changing user image

1. Navigate to 'User' page
2. Select new image
3. Click 'change picture' button

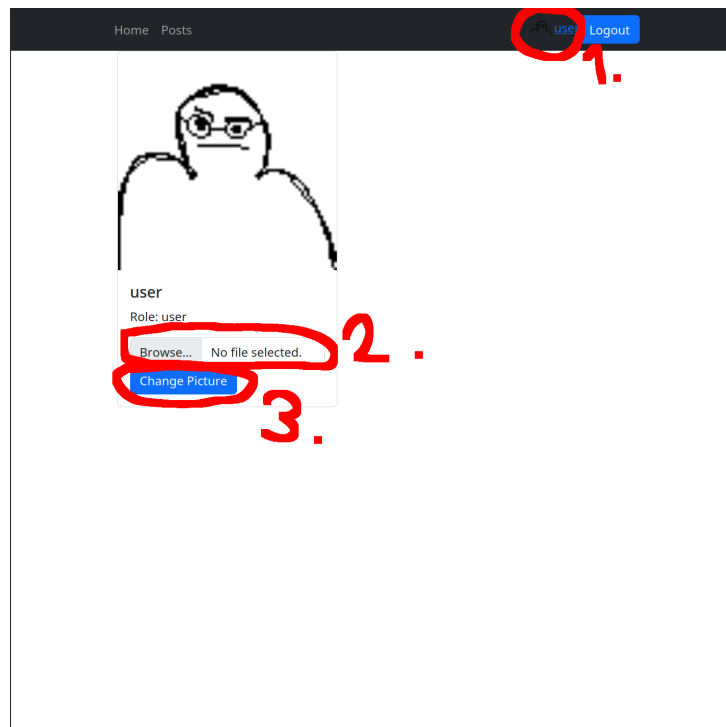


Figure 5: User Page

3.3.4 Adding post

1. Navigate to 'Posts' page
2. Click 'Add New Post' button
3. Fill the form
4. press 'Submit' button



Figure 6: Posts page

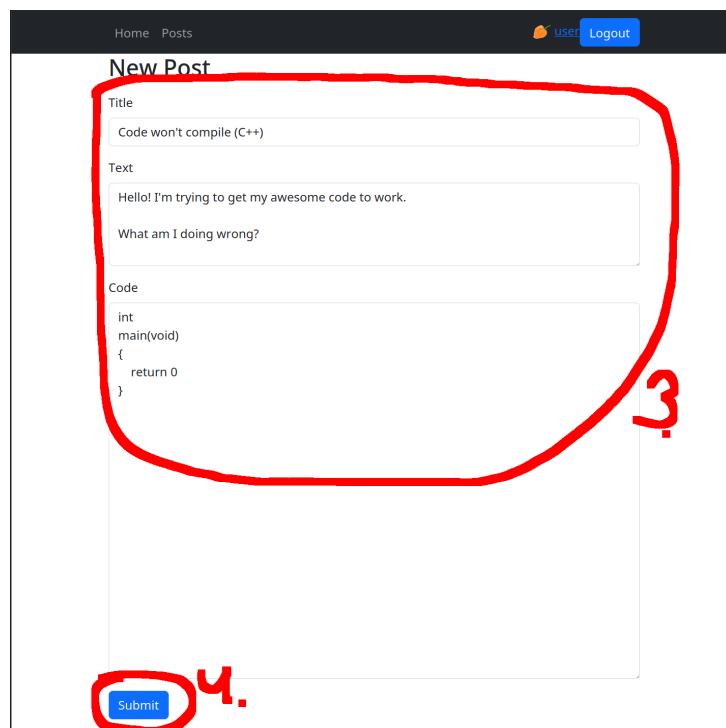


Figure 7: Add new post page

3.3.5 Editing post

Users can edit their own posts by clicking 'Edit' button in 'post' page.

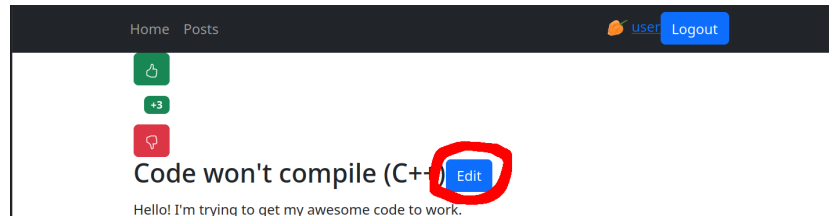


Figure 8: Post page

3.3.6 Commenting

1. Click 'Add Comment' button
2. Fill the form
3. press 'Submit' button

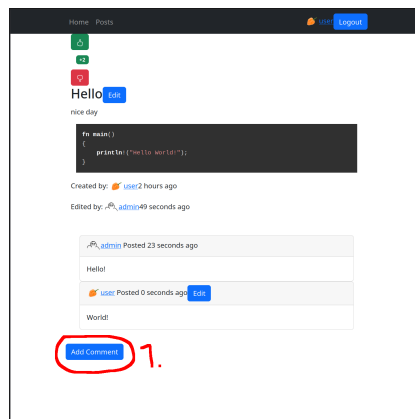


Figure 9: Post page

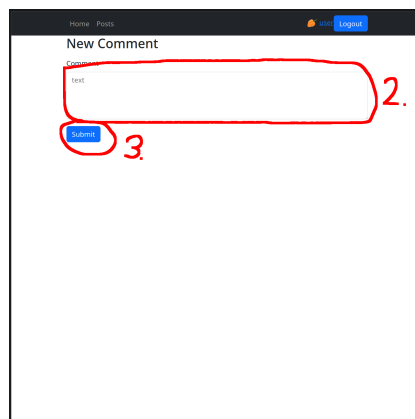


Figure 10: Add comment page

3.3.7 Edit comment

Users can edit their own comments by clicking 'Edit' button in 'post' page.

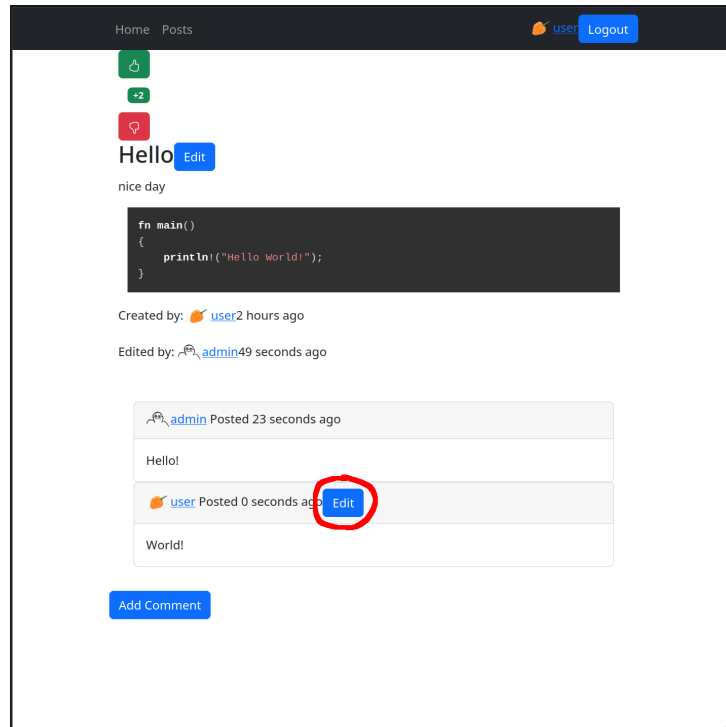


Figure 11: Post page

3.3.8 Voting

Users can vote each post.

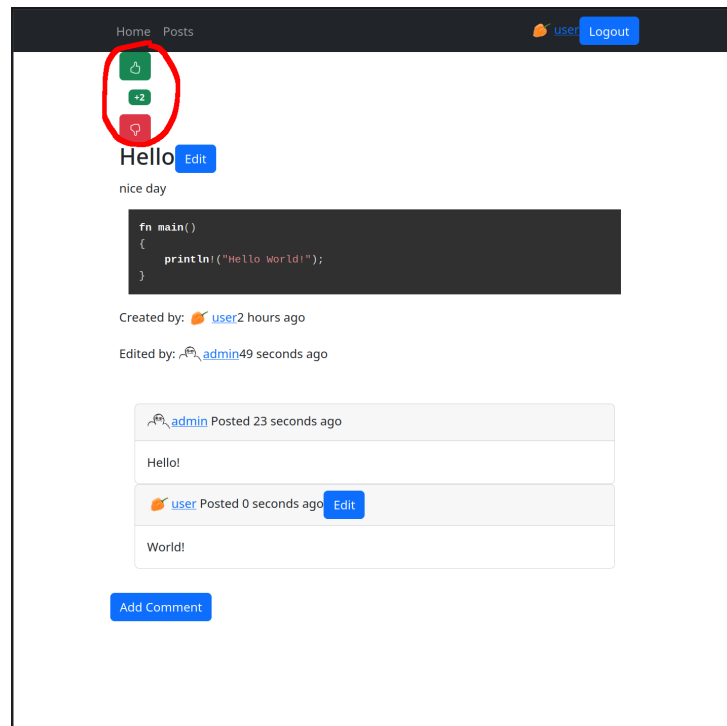


Figure 12: Post page

3.3.9 Filtering posts

Posts can be filtered using RegEx.

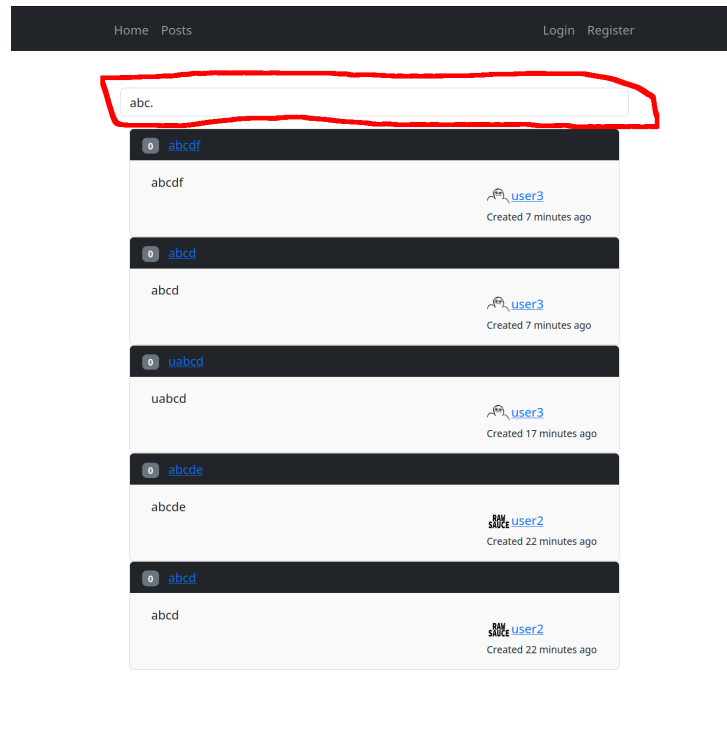


Figure 13: Posts page

3.3.10 Pagination

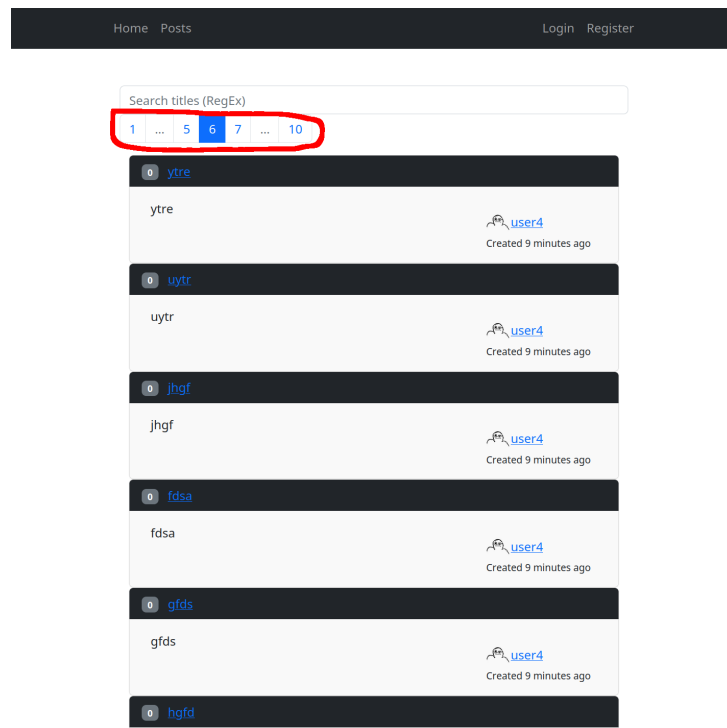


Figure 14: Posts page

4 Features

Feature	Max Points	Points	Comment
Basic features with well written documentation	25	20	minus points from documentation
Users can edit their own comments/posts	4	4	
Utilization of a frontside framework, such as React, but you can also use Angular, Vue or some other	5	5	
Use some highlight library for the code snippets	2	2	
Use of a pager when there is more than 10 posts available	2	2	
Admin account with rights to edit all the post and comments and delete content	3	1.5	Deleting posts and comments is not possible in client side. Server side implementation done.
Provide a search that can filter out only those messages that have the searched keyword	2	2	
Vote posts and comments (only one vote per user)	3	3	
User profiles can have images which are show next to posts/comments	3	3	
User can click username and see user profile page where name, register date, (user picture) and user bio is listed	2	1	Only name, role and picture.
Last edited timestamp is stored and shown with posts/comments	2	2	
Code is not commented properly	-5	-5	-
		40.5	