

Final Release Group Report

COMS 319: Construction of User Interfaces, Fall 2019

Kaden Kilburg, Trent Woodhouse, Steven Sheets

G90 - CyBuzz

Successfully Implemented Story Cards

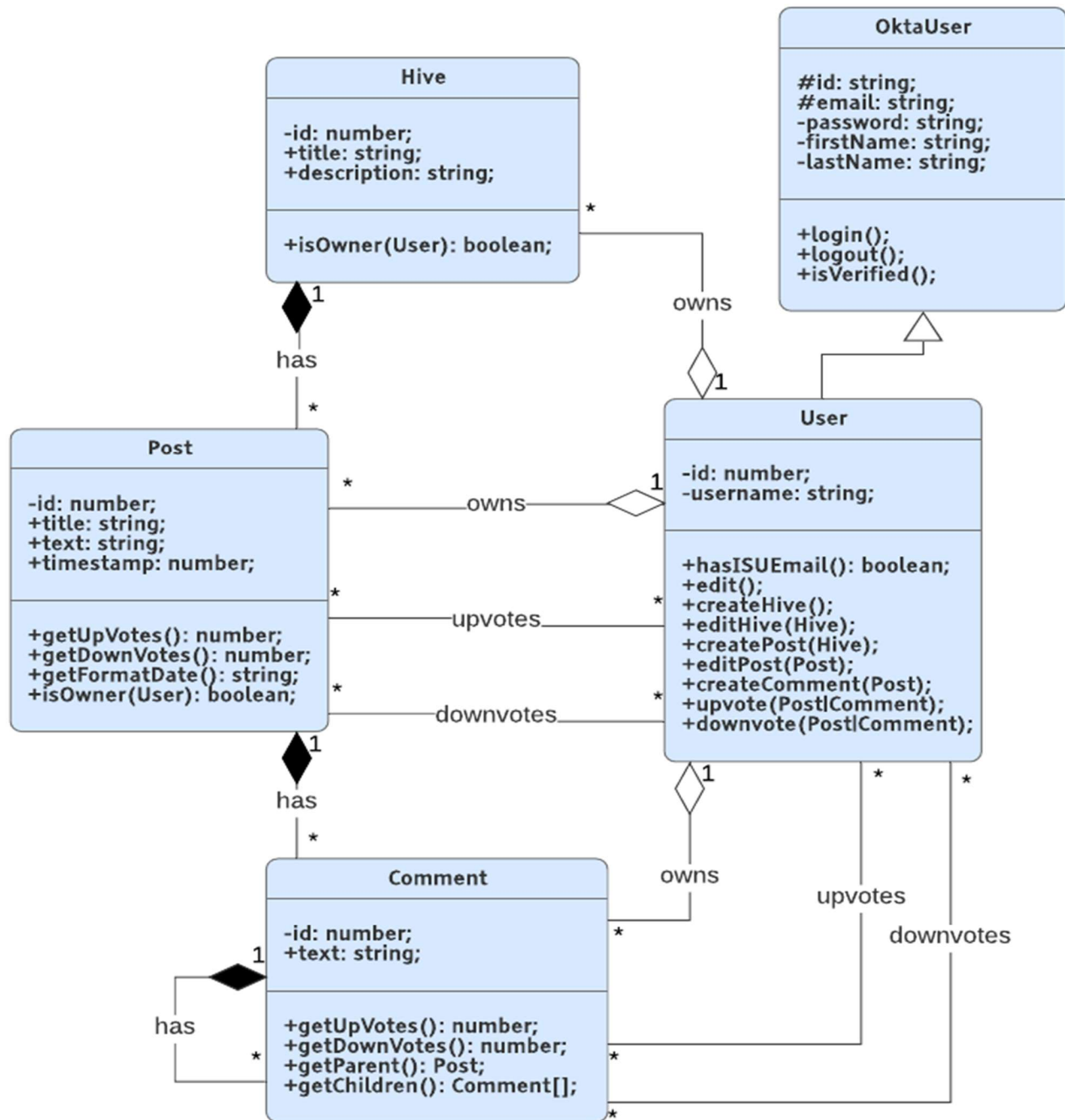
- **Story Card 24:**
 - Name of the Story: **Frontend API request setup**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Updated `ApiRequestsService` to work with `TypeORM` update
 2. Copied over entities folder into CyBuzz directory
 3. Cleaned up Angular tests
- **Story Card 29:**
 - Name of the Story: **Implement routing**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Generated index, profile, and post hive modules and components
 2. Linked up routing between their modules and `AppModule`
- **Story Card 31:**
 - Name of the Story: **Enable Okta Self Service**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Implemented user ability to self-register for a compatible Okta account
 2. Implemented login checks to access Profile view
 3. Added 404 page and invalid login page with redirects for each
- **Story Card 32:**
 - Name of the Story: **Post page**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Copied post template from `IndexComponent` to `PostComponent`
 2. Created function for formatting timestamps
 3. Implemented view with backend requests

- **Story Card 34:**
 - Name of the Story: **Search Widget**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Implemented backend search function
 2. Implemented user-friendly search bar within SearchWidgetComponent
 3. Created SharedModule for reusing components in more than one module
- **Story Card 35:**
 - Name of the Story: **Implement Comments**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Implemented CommentsComponent and CommentFormComponent on Post page
 2. Begin comment up/downvoting implementation
- **Story Card 36:**
 - Name of the Story: **Implement index**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Added PostBoxComponent
 2. Added backend usage
 3. Added button for creating a Hive on Index view
- **Story Card 40:**
 - Name of the Story: **Edit/Create Post**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Implemented create/edit functionality for Post
 2. Added button for editing Hive and creating Post on Hive view
 3. Added date to PostBoxComponent

- **Story Card 41:**
 - Name of the Story: **Permissions**
 - Assigned Team Member: Kaden Kilburg
 - Tasks Accomplished:
 1. Added permissions
 - a. Must be logged in to create a hive, post, or comment or to vote on a post or comment
 - b. Must be the creator of a Hive or Post to edit it
- **Story Card 23:**
 - Name of the Story: **Set up other backend API requests**
 - Assigned Team Member: Trent Woodhouse
 - Tasks Accomplished:
 1. Every other entity was set up, including the relation between users and comments/posts to allow for upvotes and downvotes
 2. API requests work with `typeorm` and return results from the database correctly
 3. All returned objects contain all the necessary elements within them
- **Story Card 33:**
 - Name of the Story: **Create Hive Page**
 - Assigned Team Member: Trent Woodhouse
 - Tasks Accomplished:
 1. Prints off hive title and description
 2. Prints off every available post within that hive
 3. Posts show post title, owner, and an upvote/downvote button
 4. Posts can be opened by clicking the box
- **Story Card 22:**
 - Name of the Story: **Set up comment backend API requests**
 - Assigned Team Member: Trent Woodhouse
 - Tasks Accomplished:
 1. Comments can be fetched from the database
- **Story Card 18:**
 - Name of the Story: **Implement Entities**
 - Assigned Team Member: Trent Woodhouse
 - Tasks Accomplished:
 1. Entities have been configured using `TypeORM`
 2. Starting the backend also updates database tables

- **Story Card 30:**
 - Name of the Story: **Enable TypeORM with server.js**
 - Assigned Team Member: Trent Woodhouse
 - Tasks Accomplished:
 1. `server.js` can get entities based on TypeORM's structure
 2. `server.js` runs automatically and automatically updates
- **Story Card 28:**
 - Name of the Story: **Merge Create-Server**
 - Assigned Team Member: Trent Woodhouse
 - Tasks Accomplished:
 1. The server can run in tandem with the frontend
- **Story Card 29:**
 - Name of the Story: Investigate Hive Design
 - Assigned Team Member: Steven Sheets
 - Tasks Accomplished:
 1. We determined certain UI aspects of the project
- **Story Card 37:**
 - Name of the Story: Update Navbar
 - Assigned Team Member: Steven Sheets
 - Tasks Accomplished:
 1. Navbar updated to include username post successful login

Design Documentation (Class Diagram)



Implementation Outline

Platform

- Web Application

Front-End Language/Technologies/Framework

- Angular with TypeScript, HTML

Back-End Language/Technologies/Framework

- Node.js
- TypeORM with TypeScript

Database, Server, IDE, and Design/UML Tools

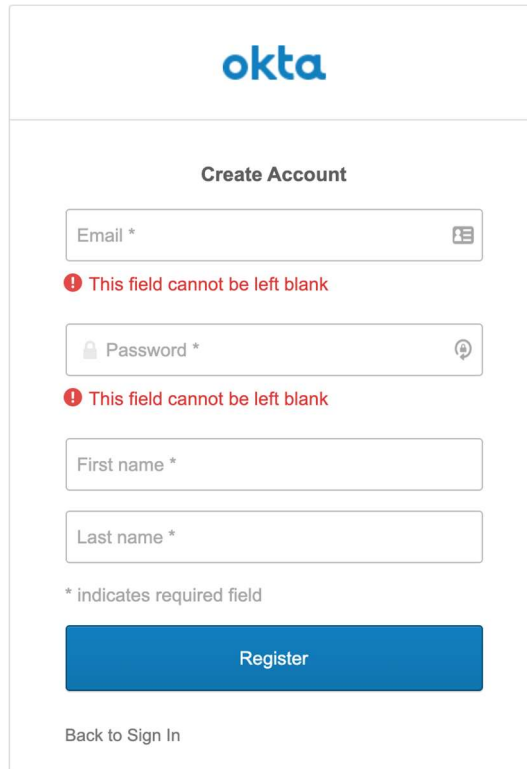
- Database: MySQL
- Server: Apache
- IDE: WebStorm, Visual Studio
- UML: LucidChart

|

UI Description with Screenshots

Screenshots with description for each successful story card...

- **Story Card 31: Enable Okta Self Service**

A screenshot of the Okta Self-Service registration form. The form is titled "Create Account" and features the Okta logo at the top. It contains four input fields: "Email *", "Password *", "First name *", and "Last name *". Each of the first two fields has a red error message below it: "This field cannot be left blank". A blue "Register" button is positioned below the name fields. At the bottom, there is a link that says "Back to Sign In". A small note states "* indicates required field".

Okta Self-Service for registering new accounts

A screenshot of a web page showing an error message. The page has a red header bar with the "CyBuzz" logo and navigation links for "Home", "Profile", and "Login". The main content area is white and displays the text "Error: Only Iowa State emails allowed!" followed by the example email "(example@iastate.edu)". The footer is a red bar containing the text "Copyright © CyBuzz 2019".

Invalid login redirect for accounts not using ISU emails.

- Story Card 32: Post Page

CyBuzz [Home](#) [Profile](#) [Logout](#) kadenk

i had a dream my professor dabbled on the h8erz

[h/shams](#)

by [bigS](#)

Posted on December 11, 2019 at 2:27 PM

0

0

900 x 300

Powered by HTML.COM

should i be concerned?

Leave a Comment:

Search

Categories

[Web Design](#)

[HTML](#)

[Freebies](#)

[JavaScript](#)

[CSS](#)

[Tutorials](#)

Side Widget

You can put anything you want inside of these side widgets. They are easy to use, and feature the new Bootstrap 4 card containers!

View for Post

- **Story Card 34: Search Widget**

Search

Search for...

Search

he

h/Hello Ali

helo

help

i had a dream my professor
dabbed on the h8erz

KADEN CLICK HERE FOR MEMES

KADEN CLICK HERE FOR MEMES
PART 2

Where R Y'all

Search

he

h/Hello Ali

helo

help

i had a dream my professor
dabbed on the h8erz

KADEN CLICK HERE FOR MEMES

KADEN CLICK HERE FOR MEMES
PART 2

Where R Y'all

Search

hello

h/Hello Ali

Search widget to search for Hives and Posts

- **Story Card 35: Implement Comments**

Leave a Comment:

Submit

1

2

BigT

This triggers me I am reporting you to the police

1

1

bigS

Honestly never speak to me again. I'm reporting you to Wendy Winteresesnesfdsl and you are going to be deported.

Leave a Comment:

Submit

0

0

kadenk

I just commented this.

1

2

BigT

This triggers me I am reporting you to the police

1

1

bigS

Honestly never speak to me again. I'm reporting you to Wendy Winteresesnesfdsl and you are going to be deported.

Comments to add feedback to a Post or other Comments

- **Story Card 36: Implement Index (Homepage)**

Featured

Create Hive

h/shams

Posted by bigS on December 11, 2019 at 2:27 PM

i had a dream my professor dabbled on the h8erz

4

0

h/shams

Posted by bigS on December 11, 2019 at 2:37 PM

illegal question

3

0

h/Luigi Impression Club, Free Turkey Basters At Next Meeting!!!

Posted by bigS on December 11, 2019 at 2:20 PM

DO vaccines cause autism?

Preview each Post on the index with a PostBox component. A "Create Hive" button added.

- **Story Card 40: Edit/Create Post**

CyBuzz
Home
Profile
Logout

Title of Post

h/Hamburglar Fan Club

by kadenk

Posted on December 13, 2019 at 7:44 PM

900 x 300

Powered by HTML.COM

Text for the post

Create

Search

Search for...

Categories

Web Design

JavaScript

HTML

CSS

Freebies

Tutorials

Side Widget

You can put anything you want inside of these side widgets. They are easy to use, and feature the new Bootstrap 4 card containers!

Copyright © CyBuzz 2019

Create page for a Post

CyBuzz
Home
Profile
Logout
kadenk

My Demo For Post

h/Hamburglar Fan Club

by Test

Posted on December 13, 2019 at 7:45 PM

900 x 300

Powered by HTML.COM

A very short description I entered just prior.

Leave a Comment:

Save

Cancel

Search

Search for...

Categories

Web Design

JavaScript

HTML

CSS

Freebies

Tutorials

Side Widget

You can put anything you want inside of these side widgets. They are easy to use, and feature the new Bootstrap 4 card containers!

Edit page for a Post if the user is the owner.

- Story Card 41: Permissions



New_Post

[h/Hamburglar Fan Club](#)

by [kadenk](#)

[Edit](#)

Search



i had a dream my professor dabbed on the h8erz

[h/shams](#)

by [bigS](#)

Search

Categories

User cannot edit a Post if not the owner.



h/Kaden's Hive

[Edit Hive](#)[Create Post](#)

Search



h/Hamburglar Fan Club

[Create Post](#)

Search

User cannot edit a Hive if not the owner.

Featured

[h/shams](#)**Posted by bigS** on December 11, 2019 at 2:27 PM

i had a dream my professor dabbled on the h8erz

👍 4 🗳 0

i had a dream my professor dabbled on the h8erz

[h/shams](#)

by [bigS](#)

Posted on December 11, 2019 at 2:27 PM

👍 4 🗳 0

900 x 300

Powered by HTML.COM

should i be concerned?

**bigS**

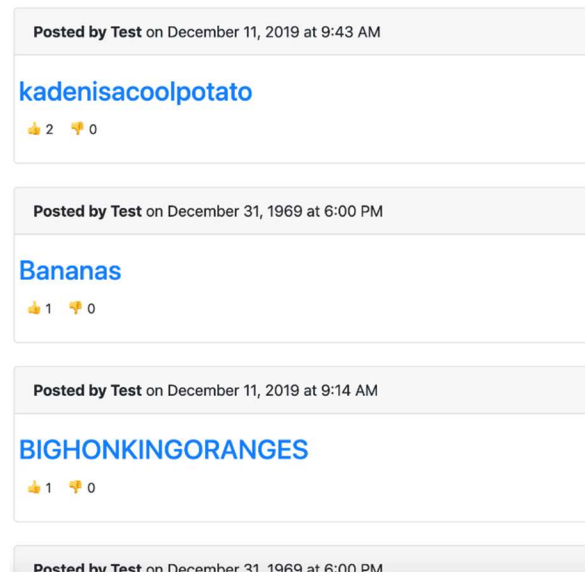
the answer may surprise you. yes.

👍 3 🗳 0

User cannot vote on either a Post or Comment if logged out.

- **Story Card 33:** Create Hive Page

h/Hamburglar Fan Club



- **Story Card 29:** Implement routing

```
IndexModule,
ProfileModule,
HiveModule,
PostModule,
AppRoutingModule,
```

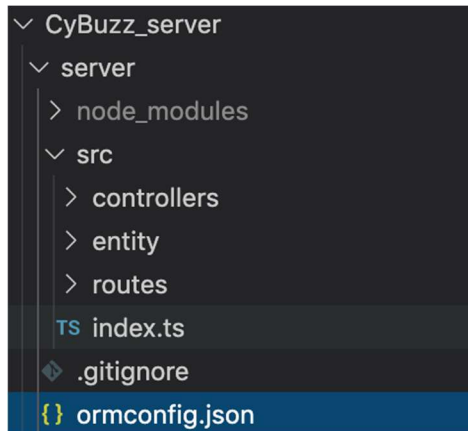
The different Angular modules created for routing and organization.

- **Story Card 18:** Implement Entities

```
entity
  TS Comment.ts
  TS Hive.ts
  TS Post.ts
  TS User.ts
```

CyBuzz's TypeORM entities folder/list

- **Story Card 30:** Enable TypeORM with `server.js`



Directory update to the CyBuzz_server to incorporate TypeORM

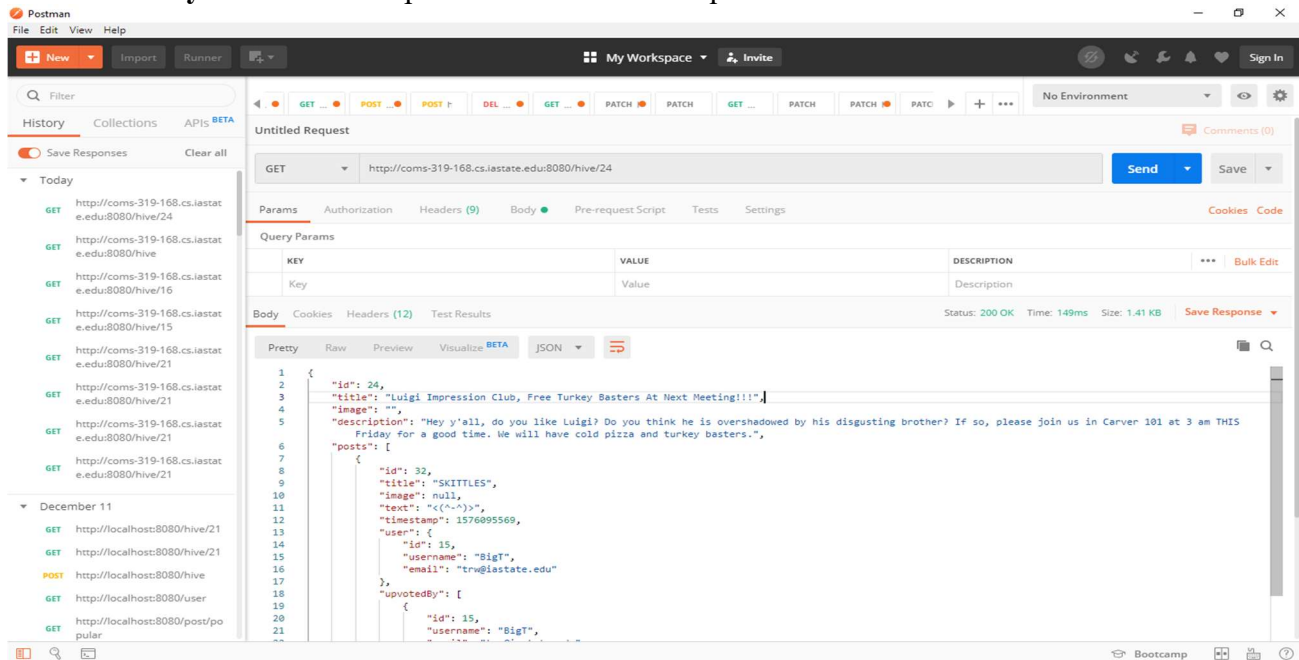
- **Story Card 24:** Frontend API request setup

```
import {Comment} from '../entity/Comment';
import {Hive} from '../entity/Hive';
import {Post} from '../entity/Post';
import {User} from '../entity/User';

@Injectable({
  providedIn: 'root'
})
export class ApiRequestsService {
```

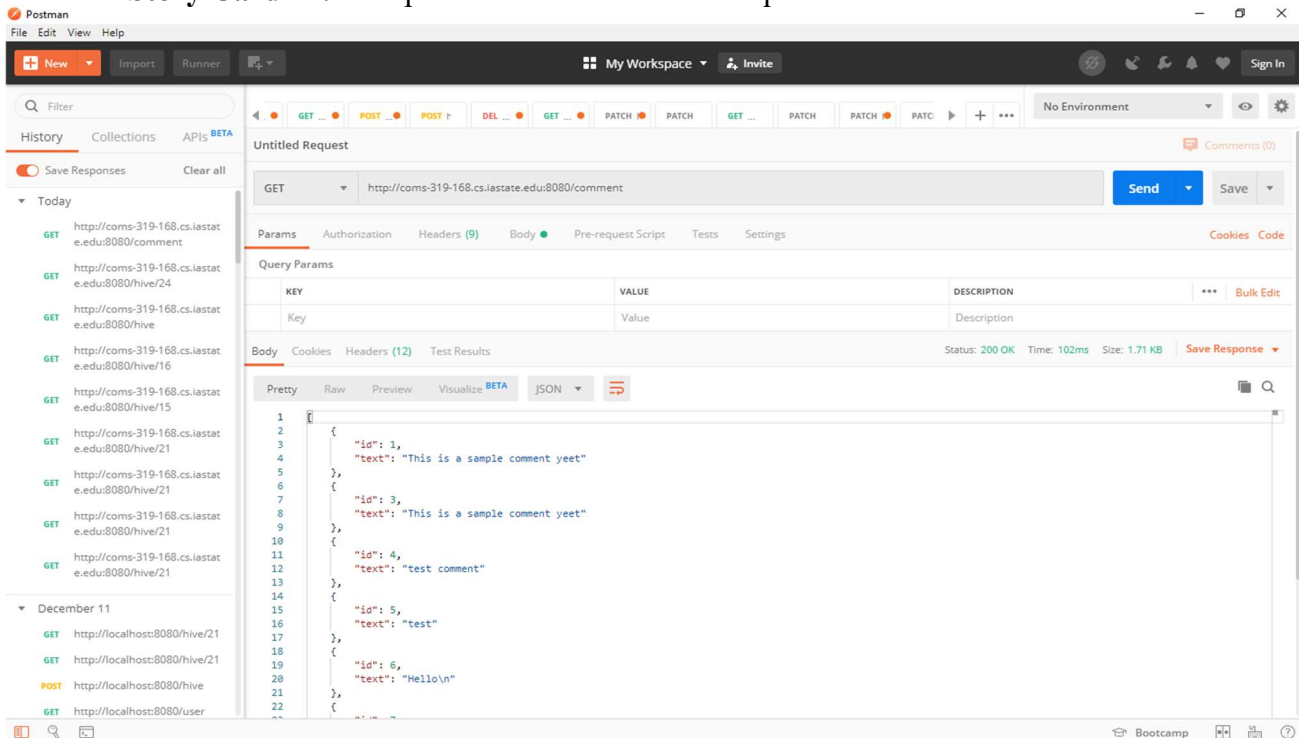
Able to use TypeORM entities in the ApiRequestsService

● Story Card 23: Set up other backend API requests



Hives return extra fields such as `upvotedBy`, `downvotedBy`, and `posts` for the front end to obtain access these entities.

● Story Card 22: Set up comment backend API requests



Comments can be fetched, updated, set, and deleted

- **Story Card 28: Merge Create-Server**



Merge branch 'feature/create-server' into 'develop' ...
trw authored 2 weeks ago

17cdc9bc



Screenshot of commit from GitLab

General flow of the app is as follows...

Navbar Pre-signing in

CyBuzz [Home](#) [Profile](#) [Login](#)

Registration Page

okta

Create Account

* indicates required field

Register

[Back to Sign In](#)

Sign-In Page



Sign In

Username

smsheets@iastate.edu

Password

••••••••

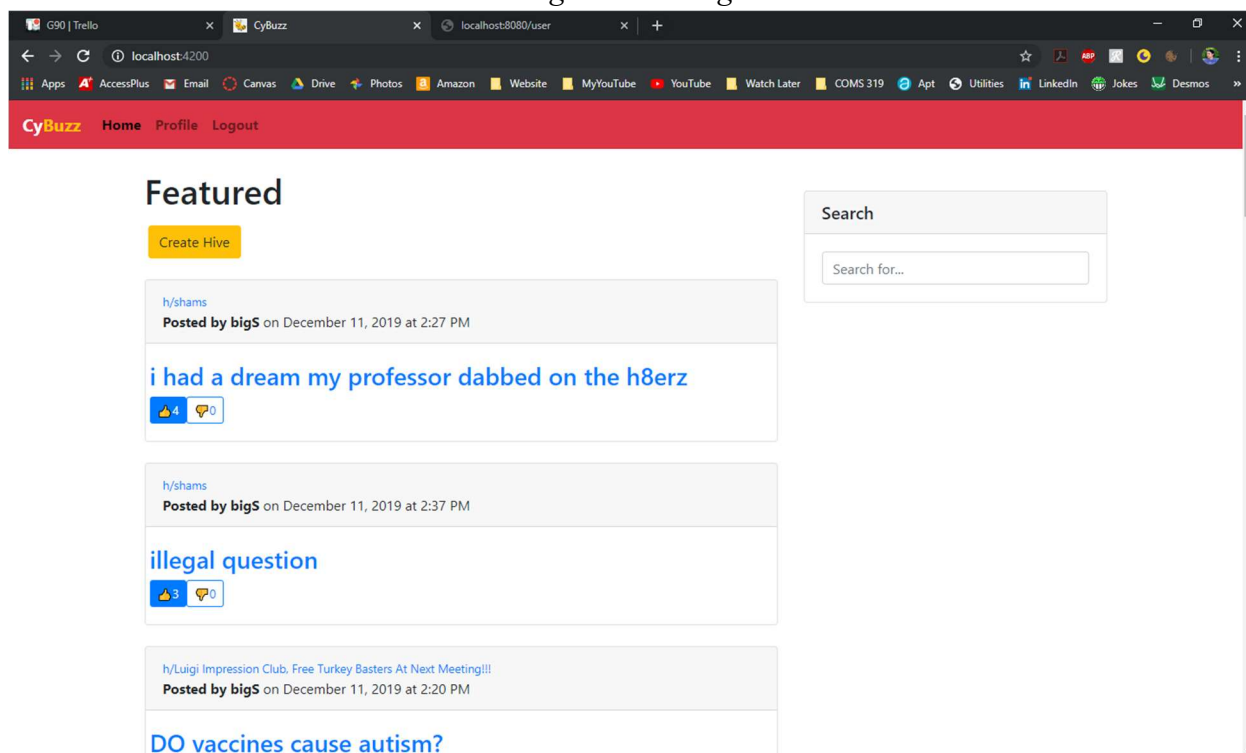
☐ Remember me

Sign In

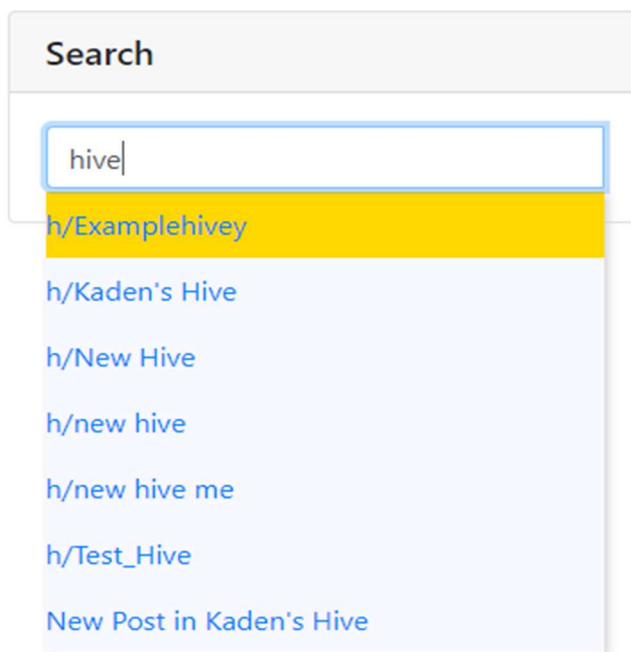
Need help signing in?

Don't have an account? [Sign up](#)

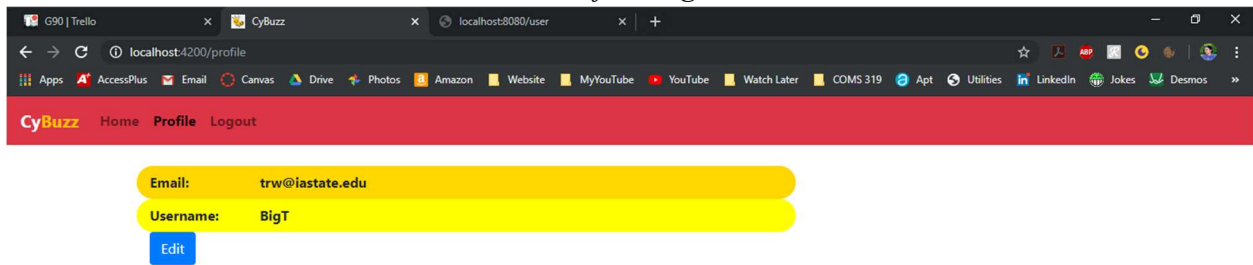
Registration Page



Search bar for hives and posts



Profile Page



A screenshot of a web browser showing the CyBuzz profile page. The browser has three tabs: 'G90 | Trello', 'CyBuzz', and 'localhost:8080/user'. The address bar shows 'localhost:4200/profile'. The page has a red header with the 'CyBuzz' logo and navigation links for 'Home', 'Profile', and 'Logout'. The profile information is displayed in yellow boxes: 'Email: trw@iastate.edu' and 'Username: BigT'. Below the username is a blue 'Edit' button.

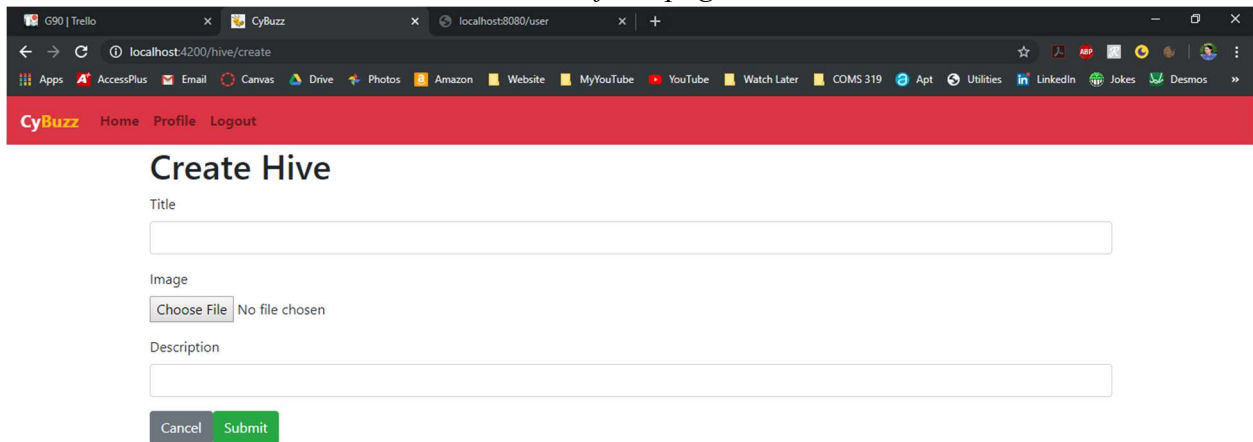
Email: trw@iastate.edu

Username: BigT

Edit

Copyright © CyBuzz 2019

Hive form page



A screenshot of a web browser showing the CyBuzz 'Create Hive' form page. The browser has three tabs: 'G90 | Trello', 'CyBuzz', and 'localhost:8080/user'. The address bar shows 'localhost:4200/hive/create'. The page has a red header with the 'CyBuzz' logo and navigation links for 'Home', 'Profile', and 'Logout'. The form is titled 'Create Hive' and contains three input fields: 'Title', 'Image', and 'Description'. The 'Image' field has a 'Choose File' button and the text 'No file chosen'. At the bottom of the form are two buttons: 'Cancel' and 'Submit'.

Create Hive

Title

Image

Choose File No file chosen

Description

Cancel Submit

Copyright © CyBuzz 2019

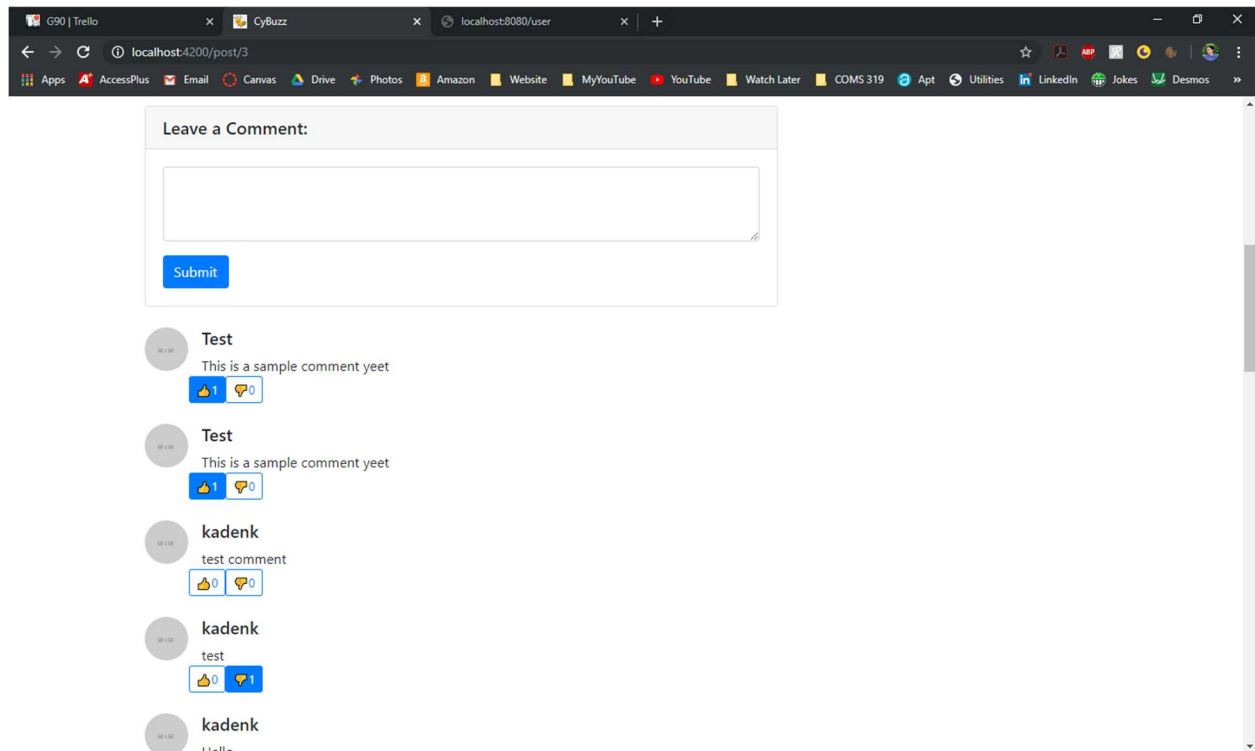
Hive Page

The screenshot shows a web browser window with the URL `localhost:4200/hive/11`. The page has a red header bar with the **CyBuzz** logo and links for [Home](#), [Profile](#), and [Logout](#). The main content area displays a hive titled **h/shams** with the text "leedle leedle leedle". Below the title are two buttons: [Edit Hive](#) (yellow) and [Create Post](#) (green). A search bar is located on the right side of the page. The hive contains two posts, both by user **bigS** on December 11, 2019, at 2:27 PM and 2:37 PM respectively. The first post is titled "i had a dream my professor dabbled on the h8erz" and the second is titled "illegal question". Both posts have a thumbs up icon and a count of 0. A red footer bar at the bottom contains the text "Copyright © CyBuzz 2019".

Post Page

The screenshot shows a web browser window with the URL `localhost:4200/post/38`. The page has a red header bar with the **CyBuzz** logo and links for [Home](#), [Profile](#), and [Logout](#). The main content area displays a post titled **JavaScript vs. TypeScript: A debate** by user **BigT**. The post is dated December 12, 2019, at 10:42 PM. The post content is a large gray rectangle with the text "900 x 300" and a small "Powered by HTML5.COM" watermark. Below the post content is a section titled "Why not both?" and a "Leave a Comment:" form. On the right side of the page, there is a search bar, a "Categories" section with links for [Web Design](#), [HTML](#), [Freebies](#), [JavaScript](#), [CSS](#), and [Tutorials](#), and a "Side Widget" section with the text "You can put anything you want inside of these side widgets. They are easy to use, and feature the new Bootstrap 4 card containers!". A red footer bar at the bottom contains the text "BigT".

Post Comments Section



Testing

Systems testing was the main form of testing used in this project.

- Using the console log, we were able to test the
 - backend data-flow
 - frontend data retrieval and manipulation both isolated from the user interface and with user interaction
- Specifically, testing was done to ensure separate JSON objects held their correct, respective attribute fields and values in those fields. TypeScript proved very useful here, enforcing these checks.
- User interface tests were also done on the website itself by observing each DOM elements for proper display of data and well as for ease of use in the areas of general feel, responsiveness, and navigability.

Summary

- In short, we are quite pleased with how CyBuzz turned out. We learned an enormous amount of programming and project management knowledge, the final product's layout looks better than we hoped, and each feature works smoothly and successfully. This project was quite the leap for us. Although familiar with HTML and JavaScript, we had to quickly learn Angular, NodeJS, TypeORM, and TypeScript all in the matter of four short weeks. We did fall behind at one point due to each member's own responsibilities and commitments, but, thanks to their efforts, we caught up and had a remarkable product to show for it. It was a great learning experience, and we are planning on continuing it after the class and finals have concluded to make it even cleaner.

