

# CPS630 - Web Application

## TMUCentral Application

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## **Objective:**

This documentation instructs the end-users, students at the Toronto Metropolitan University, on how to use the TMUCentral Marketplace Application.

## **Tech Stack:**

The front-end of the application was developed using:

- React framework
- Javascript
- CSS
- Firebase API for user login authentication
- TalkJS API for chatting platform between users

The back-end was created using:

- Node.JS
- Express
- MongoDB

## **Using the Hosted website**

**This project is hosted at the link below (Please clear cache if issues present):**

<https://tmucentral-frontend.onrender.com/>

**Backup link (Please clear cache if issues present):**

<https://tmu-central-ten.vercel.app/>

## **Demo Video**

**The demo video can be found at:**

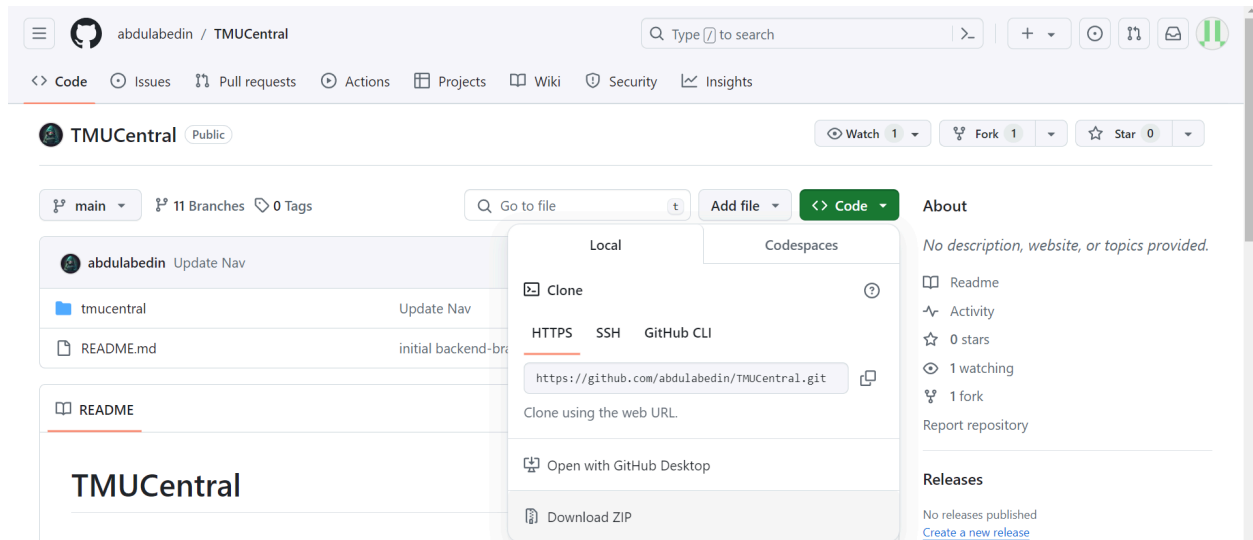
<https://drive.google.com/file/d/150iJJbS-gEjBSUIWyUGUsV2900OesiL/view?usp=sharing>

## Setup and Deployment

This project's source code can be found on Github at:

<https://github.com/abdulabedin/TMUCentral>

In order to set this app up, you first need to go to this repository on Github and clone it for your local computer. You can also download the zip file of the app.



Then you can use VS code to open the folder in your local computer. With this you have now set up this app and are ready to start it.

## Run the App

In order to run this app, use the terminal to go to the backend directory in the tmucentral directory. After that, run the command 'npm install' to install the required dependencies.

When the dependencies have been installed, run the backend server using the command 'node server.js'.

You should now see:

MongoDB connected successfully

Server is running on http://localhost:3005

Next, use the terminal to go to the frontend directory in the tmucentral directory. Then, run the command 'npm install' to install the required dependencies for the frontend as well.

When the dependencies have been installed, run the frontend using the command 'npm start'.

You should now see the app running on your localhost:3000.

## How To Use The Application

### Registration and Login:

When the user first logs into the TMUCentral application, they are prompted to either login or register. If the student is a first time user of the application, click the register button on the top right corner of the screen and register yourself. The student must provide all necessary information, the StudentID and email fields must be TMU assigned credentials. Failure to do so denies the registration request.

## Sign Up

**Full Name**

**Email**  
@torontomu.ca email needed!

**Password**  
Minimum of 8 characters needed!

**Password Confirmation**  
Minimum of 8 characters needed!

Sign Up

Already have an account? [Log In](#)

If the student has registered in the past, they can simply log in by providing the appropriate credentials mentioned on the screen.

## Log In

Email

Password

Log In

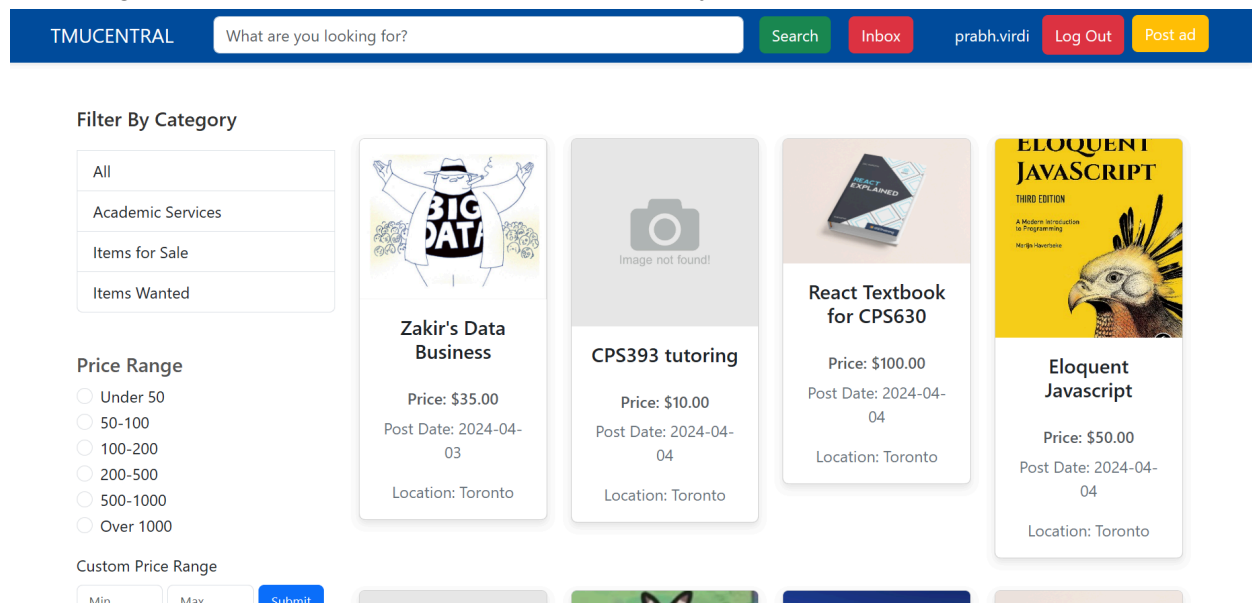
[Forgot Password?](#)

Need an account? [Sign Up](#)

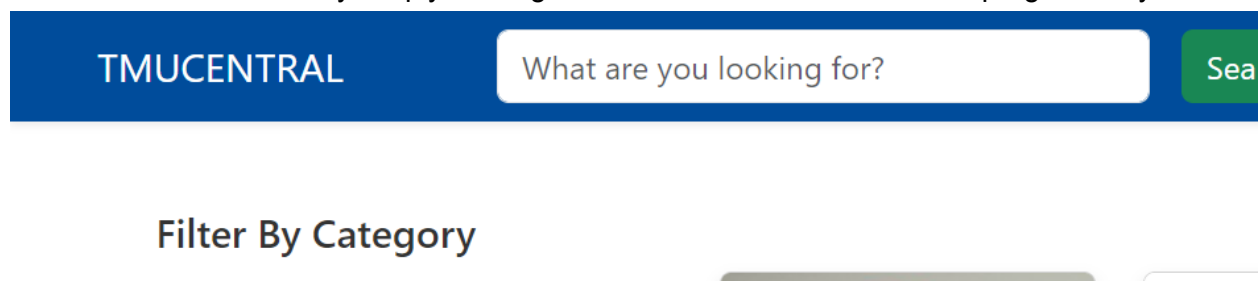
Upon logging in, the student will be directed to the main application page that displays current ads, filters and other options including search and ad posting.

## The Homepage

Homepage is where the user is defaulted to when they first open the website.



It can also be accessed by simply clicking the TMUCENTRAL text on the top-right at any time.



## The Navbar



The navbar provides an easy way to navigate through the site, It has buttons that bring you to various pages.

- TMUCENTRAL: To go to the homepage
- Searchbar and button: To search for ads.
- Inbox: To access the chat of the User.
- Username(clickable): To access the user's ads.
- Log Out: To log out from the current user.
- Post Ad: To post a new ad.

## Ad Filtering:

Filtering is achieved in 4 ways:

- 1) Category filtering - Items Wanted, Items for Sale, Academic Services
- 2) Price filtering - returns ads based on a custom price range
- 3) Location based filtering - return ads based on location
- 4) Search Bar - returns ads based on user provided query

**TMUCENTRAL**

### Filter By Category

All
Academic Services
Items for Sale
Items Wanted

### Price Range

- ☐ Under 50  
☐ 50-100  
☐ 100-200  
☐ 200-500  
☐ 500-1000  
☐ Over 1000

### Custom Price Range

<input type="text" value="Min"/>	<input type="text" value="Max"/>	<input type="button" value="Submit"/>
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### Location

<input type="text" value="Enter Location"/>	<input type="button" value="Submit"/>
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### Ad Detail Page:

When an ad is clicked, it will redirect the student to another page that displays the ad contents in detail. Within this page the user has the option to message the user.



The image shows a textbook titled "REACT EXPLAINED" by SAC BORDON. The cover is dark blue with white and light blue geometric patterns. The title "REACT EXPLAINED" is in large, bold, white letters. Below the title, it says "2ND EDITION" and "OSTraining".

## React Explained Textbook

**Location:** Toronto

**Details:** React Textbooks including Frontend, Backend and Websockets for Web Applications CPS630.

**Price:** \$100

Category: Items for Sale

Condition: Not specified

Posted on: 4/4/2024

[Contact Seller](#)

### Messaging Between Buy and Seller:

When the ad page has opened, the student can message the seller using the “message seller” button. When the student clicks the “message seller” button their message inbox will open up allowing them to begin messaging. The left chat panel displays the chat participants, displaying if they are active or not. If one of the users is offline and the other sends a message, that offline user will receive an email notification.

☐ Browser notifications

p peter just now

I would like to buy this trumpet.

p peter

You're in TalkJS Test Mode. To chat with real users, [go live](#).

pv prabh.virdi just now

Hi Peter

pv prabh.virdi just now

I would like to buy this trumpet.

The navigation bar also includes a button called Inbox allowing the user to access their chat.

TMUCENTRAL

What are you looking for?

Search

Inbox

admin

Log Out

Post ad

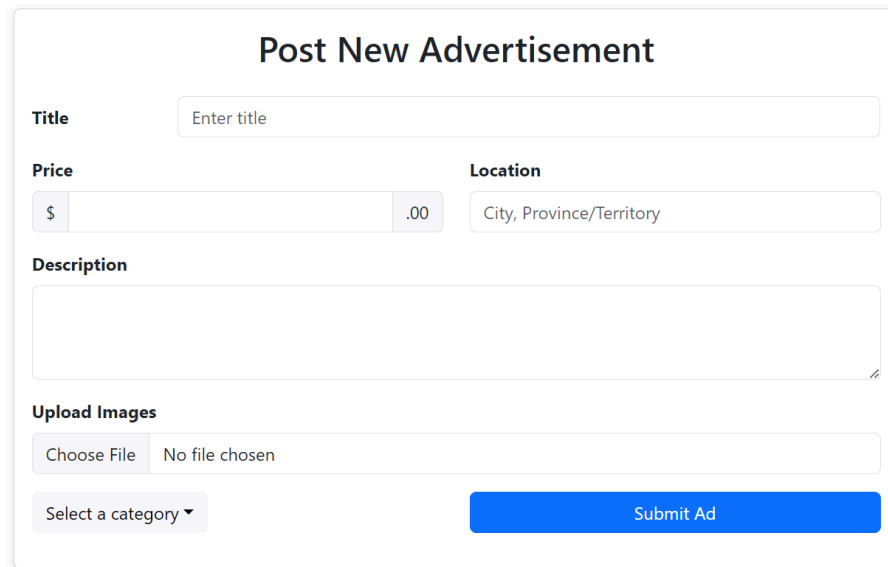
☐ Browser notifications

Your chat history will show up here

You're in TalkJS Test Mode. To chat with real users, [go live](#).

### Posting Ads:

A student can post an ad by clicking the “Post Ad” button located in the top right corner of the navigation menu.

A screenshot of a web form titled "Post New Advertisement". The form contains several input fields: a "Title" field with placeholder text "Enter title"; a "Price" section with a currency symbol "\$" and a numeric field ending in ".00"; a "Location" field with placeholder text "City, Province/Territory"; a "Description" field with a large text area and a small icon in the bottom right corner; an "Upload Images" section with a "Choose File" button and the text "No file chosen"; and a "Select a category" dropdown menu. A blue "Submit Ad" button is located at the bottom right of the form.

**Post New Advertisement**

**Title**

**Price**   **Location**

**Description**

**Upload Images**  No file chosen

The redirected page will prompt the student to enter fields such as:

- Title
- Price
- Location (City, Province/Territory)
- Description
- Upload Images
- Select a Category(Academic Services, Items for Sale, Items Wanted)

A button for Submit Ad is on the lower-right corner and can be pressed to submit the ad.

After pressing the button, you will be redirected to the page for My Ads, where you can see all your posted ads.

## My Ads

This page can be opened up either after the user has submitted an ad, where they will be redirected to, or by clicking on the user's email address in the Navigation Bar.

This page shows all your ads along with options:

- View Ad (By clicking on it)
- Delete Ad
- Edit Ad

## My Ads

 <p><b>React Explained Textbook</b></p> <p>Price: \$100.00</p> <p>Post Date: 2024-04-04</p> <p>Location: Toronto</p> <p>Edit Delete</p>	 <p><b>Eloquent JavaScript 3rd Edition</b></p> <p>Price: \$70.00</p> <p>Post Date: 2024-04-04</p> <p>Location: Toronto</p> <p>Edit Delete</p>	 <p><b>Macbook Pro</b></p> <p>Price: \$999.00</p> <p>Post Date: 2024-04-04</p> <p>Location: Brampton</p> <p>Edit Delete</p>	 <p><b>Classic Mix Pack of Chips</b></p> <p>Price: \$20.00</p> <p>Post Date: 2024-04-04</p> <p>Location: Toronto</p> <p>Edit Delete</p>
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## Edit Ad

Edit Ad will bring you to the page to edit your Ad where you can enter fields and submit the Ad again.

### Edit Advertisement

**Title**

**Price**

\$

.00

**Location**

**Description**

**Upload Images**

Choose File

No file chosen

Select a category ▼

Submit Ad

After editing the Ad you will be brought to the My Ads page again.

## Admin Page

The user can log in as an admin using:

Email address: admin@torontomu.ca

Password: cps630aA1\$

This is initiated when the admin first logs in to the site.

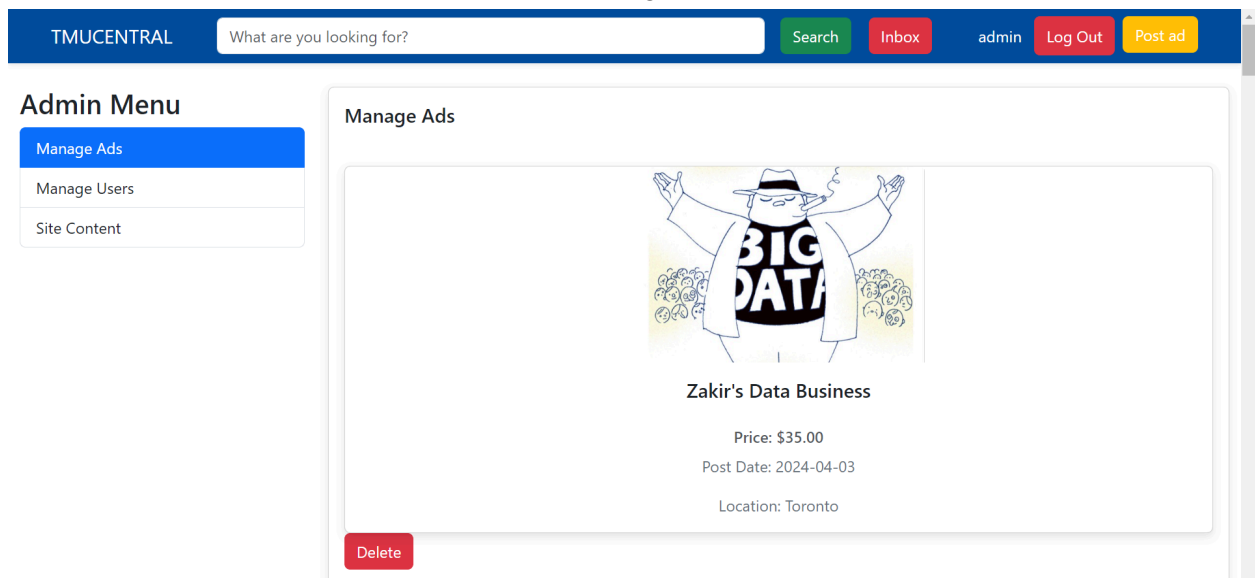


### Admin Menu

Manage Ads
Manage Users
Site Content

In this case the Admin sees 3 options:

- Manage Ads
  - This is where the admin can manage and delete ads.



- Manage Users
  - This is where the admin can manage users and delete them.

The screenshot displays the TMUCENTRAL admin dashboard. At the top, a dark blue header contains the site name 'TMUCENTRAL', a search bar with the placeholder 'What are you looking for?', and navigation links for 'Search', 'Inbox', 'admin', 'Log Out', and 'Post ad'. On the left, an 'Admin Menu' sidebar lists 'Manage Ads', 'Manage Users' (which is highlighted in blue), and 'Site Content'. The main content area is titled 'Manage Users' and contains a table of user records. Each record displays the user's name, email, ID, and a red 'Delete' button.

Name	Email	ID	Action
Mohit Verma	mohit@torontomu.ca	660e42c25594496ea694dd8e	Delete
admin	admin@torontomu.ca	660f012359f901196dae1c87	Delete
mohit	verMohit@torontomu.ca	660f04655205dcf0353f80ad	Delete
abdul	abdul.abedin@torontomu.ca	660f100759f901196dae1cc9	Delete

- Site Content
  - This is where the admin can see the site content including ads like a normal user would.