

# INFS 740 PROJECT

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## Project Installation

1. [Install Node \(v20.11.1\)](#)
2. Install Dependencies - `npm install`
3. Create a `.env.local` file and add the following environment variables:

```
MONGODB_URI = MongoDB URI String  
SESSION_SECRET = Create a random session secret  
NODE_ENV = development
```

4. Run the code in **http://localhost:3000/** - `npm run dev`

## Tech Stack

1. Frontend: React
2. Backend: Next.js 14
3. Database: MongoDB
4. Development Dependencies: Tailwind CSS, Radix UI, Shad-cn, TypeScript

## Collections

1. Users
2. Posts
3. Communities

## Basic Queries (CRUD Operations)

1. Users:
  - **View:** Retrieve and display a list of all users (in admin page), or a specific user's details (when user logs in).
  - **Insert:** Add a new user to the collection, including details like name, email, username, phone number, and password. Users can be added in the admin page or users can sign up with their details.
  - **Update:** Modify details of an existing user, such as updating their email address or the communities they're part of.

- **Delete:** Remove a user from the database.

## 2. Posts:

- **View:** Display posts, with options to filter by user or community.
- **Insert:** Allow users to create a new post, including title, content, associated community, and image.
- **Update:** Enable editing of post content or its associated community.
- **Delete:** Delete the user's post from the database

## 3. Communities:

- **View:** Show a list of all communities or detailed view of a selected community, including a list of members and posts.
- **Insert:** Add a new community with details like name, description, and community image.
- **Update:** Update community details like name, bio, and community image.
- **Delete:** Remove a community from the database.

## Search Queries

### 1. User Engagement Overview: Displaying User Posts and Community Associations

In the admin section, under the user engagement tab, administrators can browse a comprehensive list of all website users. Upon selecting a user, the interface displays all posts created by that user. Furthermore, it reveals detailed information about the communities related to these posts.

This query integrates the posts, users, and communities collections effectively. Initially, all users are listed in a table format. When an admin clicks on a specific user, the system retrieves and displays all posts made by that user in a central table. The communities associated with each post are compiled into a set, enabling the system to gather and display details about all communities the user has interacted with. These community details are then shown in a concluding table, providing a holistic view of user engagement across different community spaces.

The screenshot shows the Admin Dashboard with the 'User Engagement' tab selected. At the top, there are four summary cards: 'Users' (172), 'Posts' (913), 'Communities' (68), and 'Active Users' (123). Below the tabs is a navigation bar with 'Visualization', 'Users', 'Posts', 'Communities', 'Insert Data', and 'User Engagement' (which is highlighted). The main content area is titled 'User Engagement' and displays a list of users and their posts. To the right, there is a section for 'Community Activity' showing communities like 'Ocean', 'Photography', 'Random', and 'Dish' with their member counts.

User	Post
anithaJ77	Mysteries of the Mariana Trench
complexgovernor	Community: Ocean
rusticorder	Coral Reef Crisis
greenvoyage	Community: Ocean
rusticair	Vulgivagus vilicus vorax.
dynamictrip	Community: Random
redBullLegend	Tenax conqueror cupressus velut
rt556	custodia et denique capio deduco.

Community	Members
Ocean	7823
Photography	6789
Random	7890
Dish	6780

## 2. Overview of Community Engagement Analytics on the Admin Dashboard

In the admin page, under the community activity tab, the admin can view a list of all communities registered on the website. By selecting a specific community, the admin can see all the posts associated with that community displayed. Alongside the posts, a statistical panel provides insights into the total number of posts made within the selected community and the number of unique contributors.

This search query leverages the communities, posts, and users collections. Initially, all communities are listed for selection. Upon selecting a community, the system fetches and displays all posts from that community. Concurrently, it calculates the total number of posts and identifies unique users who have contributed, effectively summarizing the engagement within the community. This information is organized into a visually structured layout with separate sections for community selection, post details, and statistical data, enhancing the admin's ability to monitor and analyze community interactions.

The screenshot shows the Admin Dashboard with the 'Community Activity' tab selected. At the top, there are four summary cards: 'Users' (174), 'Posts' (935), 'Communities' (88), and 'Active Users' (136). Below the tabs is a navigation bar with 'Visualization', 'Users', 'Posts', 'Communities', 'User Engagement', 'Community Activity' (which is highlighted), and 'Insert Data'. The main content area is titled 'Community Activity' and displays a list of communities and their posts. To the right, there is a summary panel showing 'Total Posts: 21' and 'Unique Contributors: 21'.

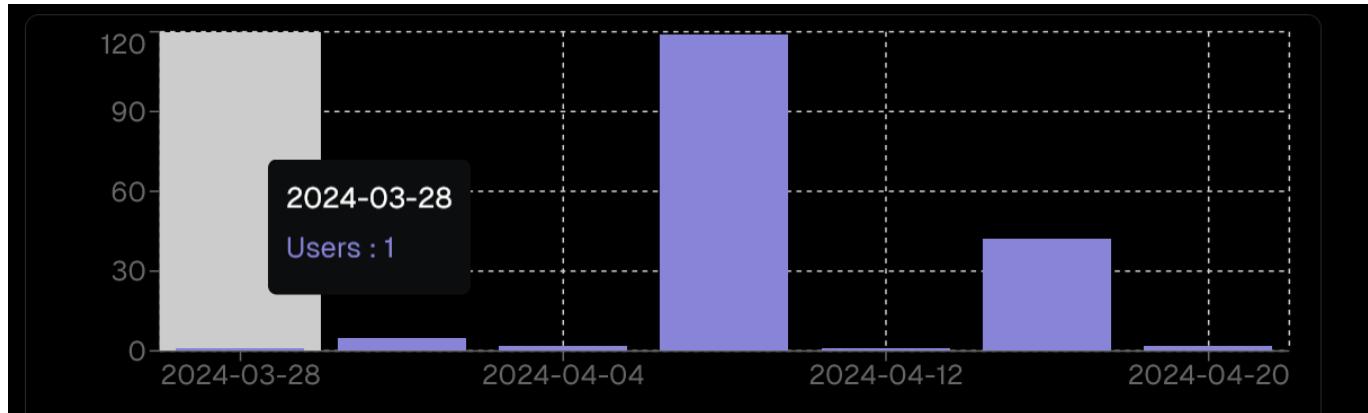
Community	Post
skating	Depopulo minima vaco villa tredecim
coffee	vacus super celer unde.
ocean	Tenuis custodia fuga basium tardus
<b>dogs</b>	quas thesis alius aptus argumentum.
city	Inventore ullam stillacidium taceo.
gaming	Benigne suasoria temptatio damnatio
automobiles	coniuratio solus.
random	Antiquus absque acies approbo

Total Posts: 21  
Unique Contributors: 21

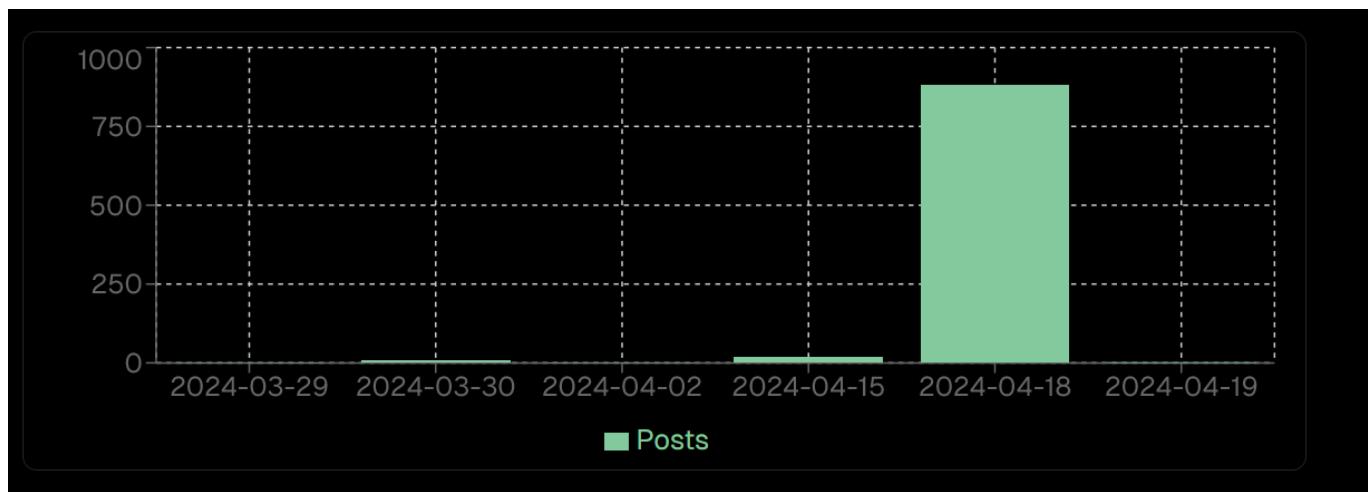
## Visualization

There are three visualizations for three communities. Each visualization displays the number of entries made to each collection in the past 30 days.

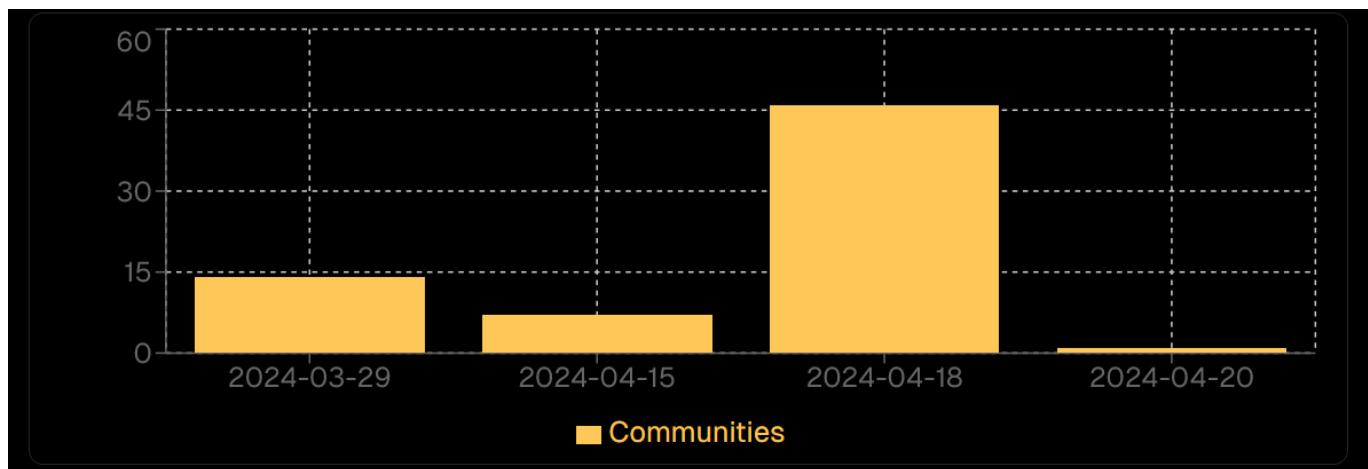
For the Users collection, the visualization shows the number of users that signed up on the website in the last 30 days:



For the Posts collection, the visualization shows the total number of posts made in the last 30 days:



For the Communities collection, the visualization shows the number of communities created in the last 30 days:



UI Screenshots

**Connexion**

- Advertiser
- Help
- Blog
- Careers
- Press
- Content Policy
- Privacy Policy
- User Agreement

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greenvoyage • Ocean March 29, 2024

## Plastic Pollution: The Ocean's Silent Threat



The waves gently lapped at the sandy shore, but the illusion of tranquility was shattered when Liam looked closer. Amid the driftwood and seashells lay a shocking amount of plastic debris - bottles, bags, utensils, and an endless stream of smaller shards and fragments. As he sifted through the multi-colored pieces, he spotted something trapped beneath - the remains of a seabird, its body grotesquely entangled in the refuse. A somber reminder of the devastating impact plastic pollution has on marine ecosystems.

12 12 12 ↑

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## Sustainable Seafood: A Guide to Ethical Consumption

Haley inhaled deeply, savoring the briny scent of the morning sea air as she walked along the docks where the day's catch was being unloaded. She loved this part of her job, connecting with the local fisherfolk who embraced

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**Communities**

Search communities...

 **Ocean** 7823 members sdfsd

 **Hiking** 9421 members Embark on thrilling adventures and explore the great outdoors with fellow hiking enthusiasts.

 **Photography** 6789 members Capture the world through your lens and share your artistic perspective with others.

 **Computer science** 8234 members Dive into the fascinating world of computer science and explore cutting-edge technologies.

localhost:3000/community/ocean

**Connexion**

Home Community Create Profile Logout

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**Ocean**  
sdafsd  
7823 ⚡

**Related Posts**

rusticorder • Ocean March 29, 2024 ...  
**Mysteries of the Mariana Trench**  


**Connexion News**

- Connexion introduces new feature to schedule posts in advance
- The battle for AI talent blows up
- McKinsey ramps up promotion stress
- Connexion updates privacy settings for better user control

**Connexion**

Home Community Create Profile Logout

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### Create post or community

Create Post Create Community

#### Create a Post

Choose a community ▾

Title

Enter Image URL

Or

Enter Text

Post

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# Dashboard

Logout

172
Users

913
Posts

68
Communities

56
Active Users

Visualization	Users	Posts	Communities	Insert Data	User Engagement	
6606220b3783aaaf5c79fd9f12	ocean	7823	2024-03-29T02:06:03.645Z	<a href="#">Edit</a>	<a href="#">Delete</a>	
6606220b3783aaaf5c79fd9f14	hiking	9421	2024-03-29T02:06:03.645Z	<a href="#">Edit</a>	<a href="#">Delete</a>	
6606220b3783aaaf5c79fd9f15	photography	6789	2024-03-29T02:06:03.645Z	<a href="#">Edit</a>	<a href="#">Delete</a>	
6606220b3783aaaf5c79fd9f16	computer science	8234	2024-03-29T02:06:03.645Z	<a href="#">Edit</a>	<a href="#">Delete</a>	
6606220b3783aaaf5c79fd9f17	coffee	6012	2024-03-29T02:06:03.645Z	<a href="#">Edit</a>	<a href="#">Delete</a>	

# Connexion

Logout

[Home](#)
[Community](#)
[Create](#)
[Profile](#)

- [Advertise](#)
- [Help](#)
- [Blog](#)
- [Careers](#)
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## Settings

Manage your account settings

[Profile](#)
[Account](#)
[Activity](#)

### Profile

This is how others will see you on the site.

Name

Username

This is your public display name. It can be your real name or a pseudonym.

Email

You can manage verified email addresses in your email settings.

[Delete Account](#)

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