



# Research Paper Repo

CS 6000-007 Masters Project

---

## User Manual



**Ying Liu**

**Assistant Professor**

**Submitted by-**  
Sai Kumar Siddu - R11779742  
Chandana Tulluru - R11800872

## Installation Manual

- To complete necessary installations,
- Install node → <https://nodejs.org/en/download>
- Download Python → <https://www.python.org/downloads/>
- Download the code from the GitHub repository → <https://github.com/ResearchPaperRepo/Publications>
- The overview of directories is as follows:
  - The publications-master folder has three folders Frontend, Backend, and Parser.
- Open the publications-master folder in VSCode
- Open the terminal/command prompt in VScode or any other editor.
  - ➔ Change the directory to Backend from the root directory (publications-master) using the command
    - ◆ ***cd Backend***
  - ➔ Run the following command to install the required dependencies
    - ◆ ***npm install***
  - ➔ Go back to the project's root directory(publications-master)
    - ◆ ***cd ..***
  - ➔ Change the directory to Frontend
    - ◆ ***cd Frontend***
  - ➔ Run the command to install dependencies
    - ◆ ***npm install***
  - ➔ Go back to the project's root directory(publications-master)
    - ◆ ***cd ..***
  - ➔ Change the directory to Parser
    - ◆ ***cd Parser***
  - ➔ Run the command to install dependencies
    - ◆ ***pip install -r requirements.txt***
  - ➔ Go back to the project's root folder
    - ◆ ***cd ..***

Now all the requirements have been installed.

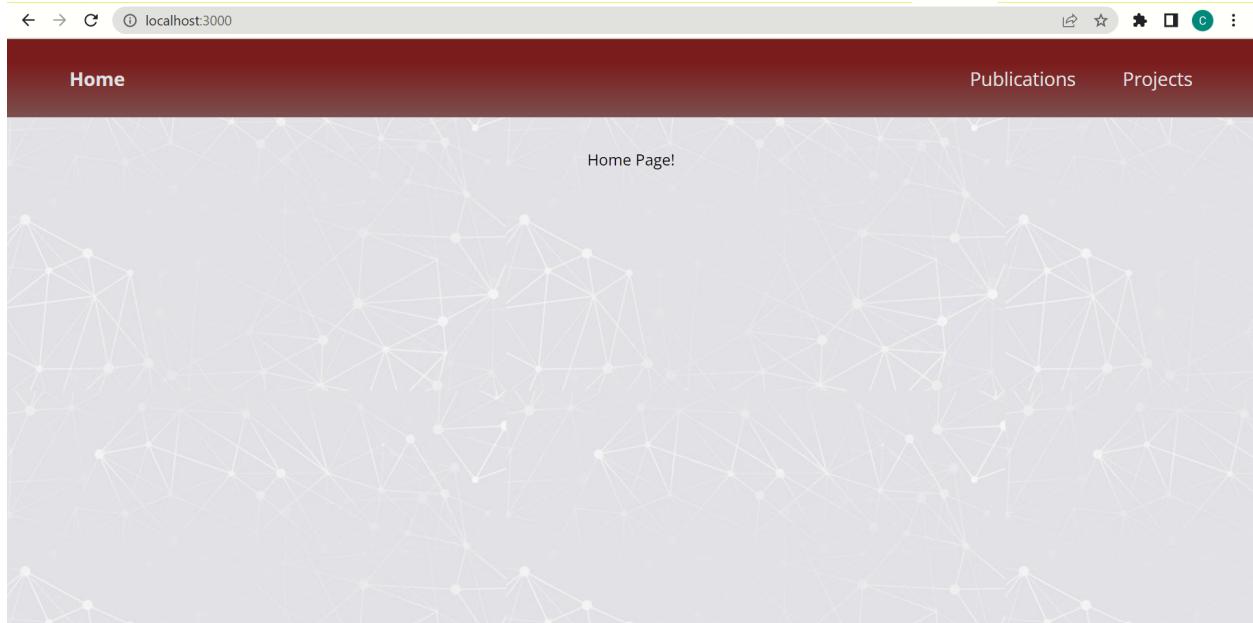
## User Manual

To run the application open 2 command prompts.

- In one command prompt change the directory to Backend from the projects root directory publications-master → ***cd Backend***

- To start the backend run the command → ***npm dev start*** or ***npm run start dev***
- In the other command prompt change the directory to Frontend from the projects root directory → ***cd Frontend***
- To start the frontend run the command → ***npm dev start*** or ***npm run dev*** or ***yarn dev*** or ***pnpm dev***

Open the browser and type <http://localhost:3000/> to go to the main page of the application and it should display as shown below:

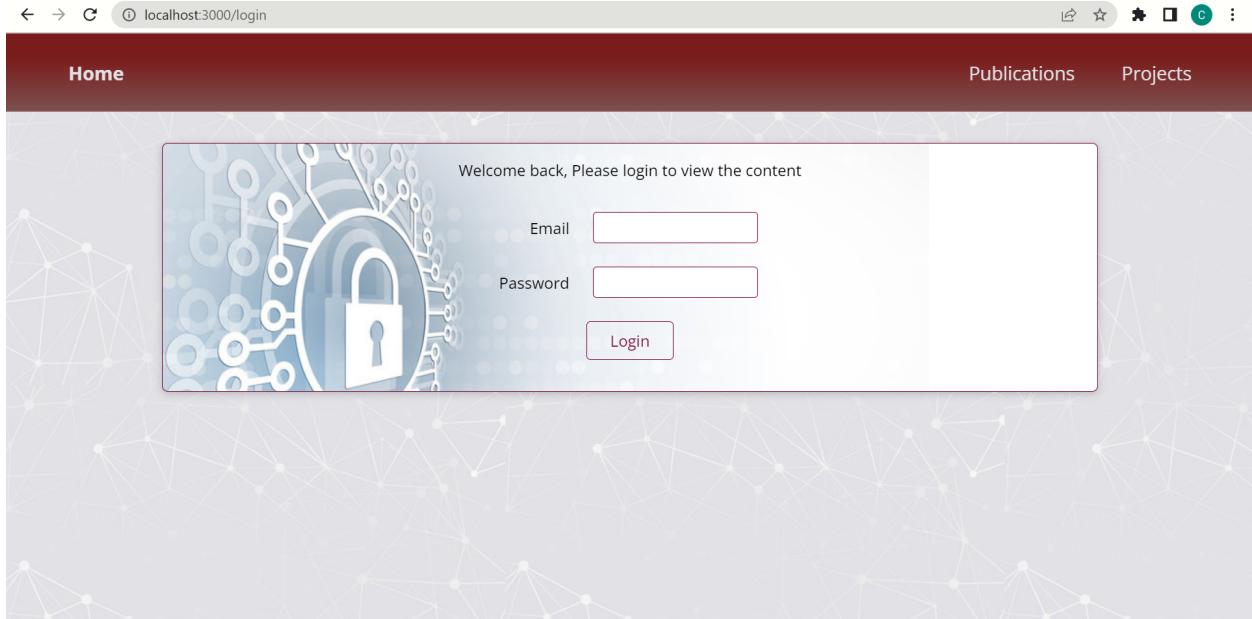


On the publications page, the user can now

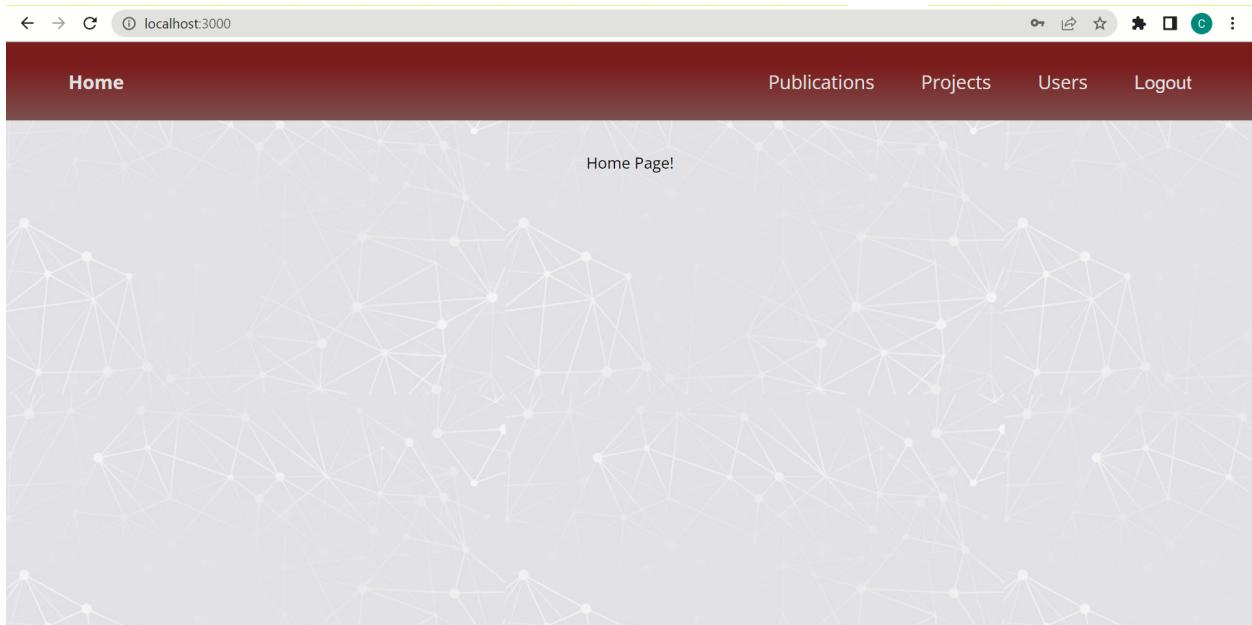
- See the list of papers uploaded.
- Expand the abstract of each list item by clicking on the three dots.
- Collapse the abstract by clicking on the collapse button.
- View the pdf by clicking on the pdf's name.

To log in please go to the page localhost:3000/login

The user is redirected to the page below:



Logged in with admin credentials:



On the publications page, the admin will be able to see the upload button to upload the pdfs

**Title:** NetSquid, a NETwork Simulator for QUantum

**Authors:** contributed equally: tim coopmans, robert knegjens. 6these authors jointly supervised this work: david elkouss, stephanie wehner. email: d.elkousscoronas@tudelft.nl;s.d.c.wehner@tudelft.nl

**Abstract:** in order to bring quantum networks into the real world, we would like to determine the requirements of quantum network protocols including the ...

**Keywords:**

**NetSquid PDF**

**Title:** NetSquid, a NETwork Simulator for QUantum

**Authors:** contributed equally: tim coopmans, robert knegjens. 6these authors jointly supervised this work: david elkouss, stephanie wehner. email: d.elkousscoronas@tudelft.nl;s.d.c.wehner@tudelft.nl

To upload the document, the admin clicks on the '+' button and then the upload symbol selects the pdf to upload and clicks submit.

The newly uploaded pdf is added to the publications list(at the bottom) after refreshing the page.

In the users part, as we are in the admin interface, the admin will be able to see the users who are allowed to register on the website and upload the documents.

Email  Add User

**Registered Users**

ssaikuma@ttu.edu
test@test.com
test1@test.com
test2@test.com
test3@test.com
ctulluru@ttu.edu

To add a new user, the admin can enter the email address of the user, and can manually notify the user to register. Let's say we will now add a user with the email [test4@gmail.com](mailto:test4@gmail.com) who is not currently the current user.

The screenshot shows a web browser window with the URL [localhost:3000/users](http://localhost:3000/users). The page has a dark red header bar with the word "Home" on the left and "Publications", "Projects", "Users", and "Logout" on the right. Below the header is a light gray background featuring a white network graph pattern. In the center, there is a form with an "Email" input field containing "test4@gmail.com" and a "Add User" button. Below the form, a message says "Added User successfully test4@gmail.com". To the right of the message is a table titled "Registered Users" with the following data:

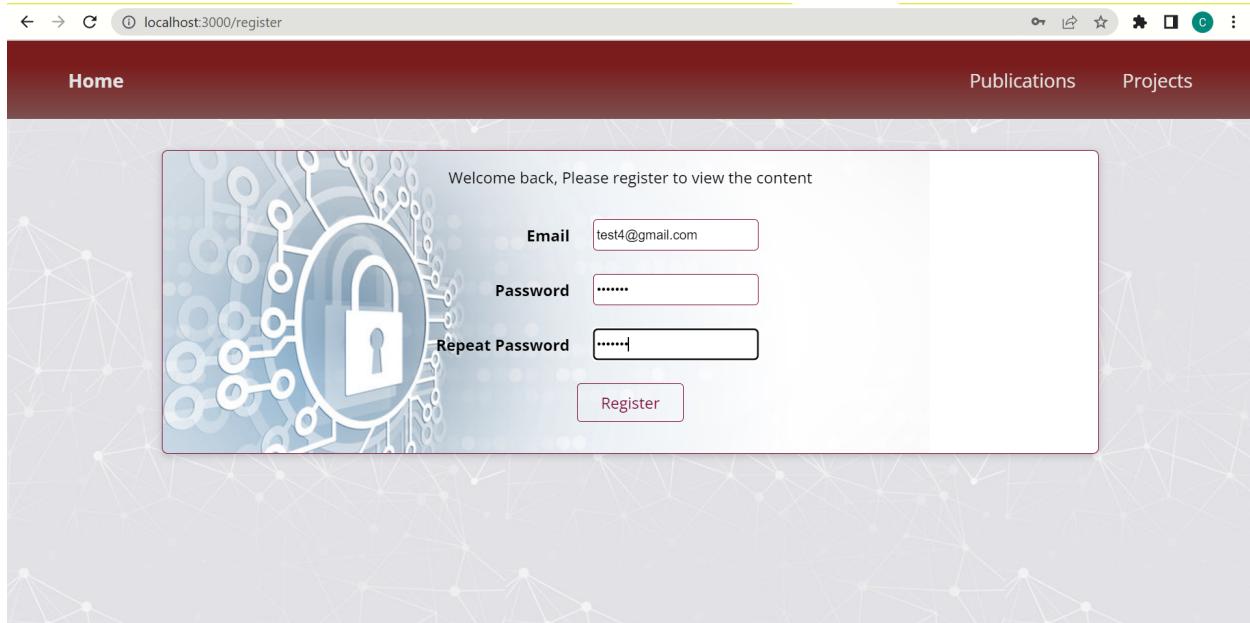
Registered Users
ssaikuma@ttu.edu
test@test.com
test1@test.com
test2@test.com
test3@test.com
ctulluru@ttu.edu

The user is now added successfully!

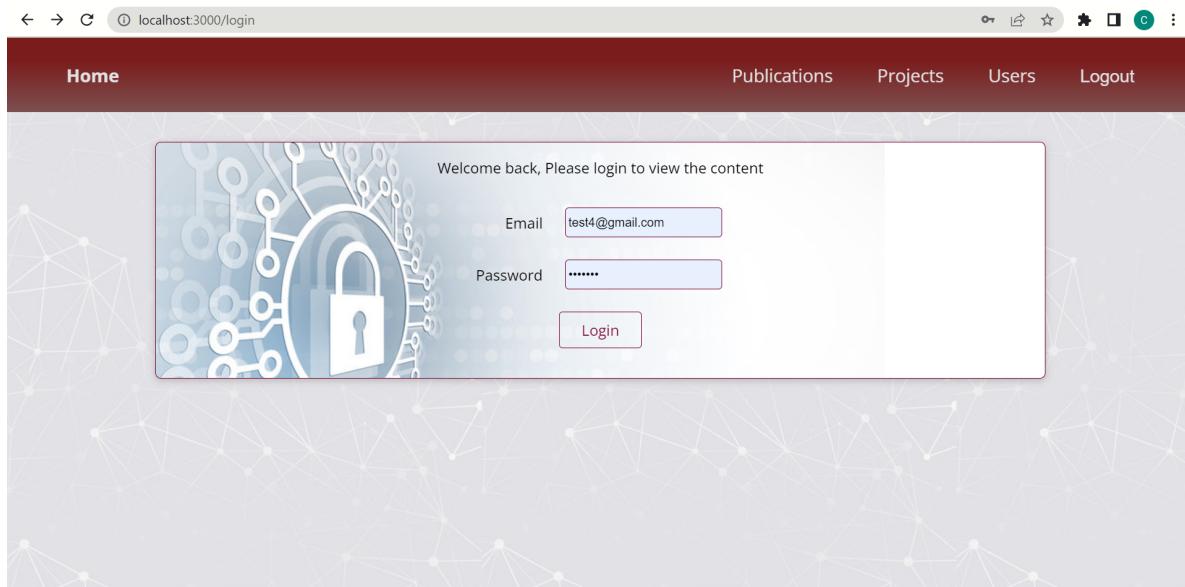
This screenshot shows the same web application after the user has been added. The interface is identical to the previous screenshot, but the "Registered Users" table now includes the new email address:

Registered Users
ssaikuma@ttu.edu
test@test.com
test1@test.com
test2@test.com
test3@test.com
ctulluru@ttu.edu
test4@gmail.com

To log in, the new user needs to register to the web application at the following URL  
<http://localhost:3000/register>.



After registering successfully, the user can now login at <http://localhost:3000/login>.



After login, to the publications page, the user is now able to upload the documents to the server.

The screenshot shows a web application interface with a dark red header bar. The header contains the text "Home" on the left and "Publications", "Projects", "Users", and "Logout" on the right. Below the header, there is a large white button with a plus sign (+) in the center. Underneath this button, there are two separate card-like boxes, each representing a publication.

**Publication 1:**

- Title:** NetSquid, a NETwork Simulator for QUantum
- Authors:** contributed equally: tim coopmans, robert kneijens. 6these authors jointly supervised this work: david elkouss, stephanie wehner. email: d.elkousscoronas@tudelft.nl;s.d.c.wehner@tudelft.nl
- Abstract:** in order to bring quantum networks into the real world, we would like to determine the requirements of quantum network protocols including the ...
- Keywords:** (empty)
- Actions:** A pink rectangular button labeled "NetSquid PDF" is located at the bottom right of the card.

**Publication 2:**

- Title:** NetSquid, a NETwork Simulator for QUantum
- Authors:** contributed equally: tim coopmans, robert kneijens. 6these authors jointly supervised this work: david elkouss, stephanie wehner. email: d.elkousscoronas@tudelft.nl;s.d.c.wehner@tudelft.nl
- Abstract:** (empty)
- Keywords:** (empty)

Even though the user has access to the user's page, unlike the admin, is unable to add a new user.

→ Only the users added by the admin can be registered at the following URL  
<http://localhost:3000/register>.

The projects page is not yet developed!

## Manual for MongoDB Database:

- Go to the link <https://www.mongodb.com/>. Click on sign in.
- Sign in via Google account. To sign in please enter the below credentials:
  - Email address → [research.paper.repo@gmail.com](mailto:research.paper.repo@gmail.com)
  - Password → TexasTechUniversity
- After signing in you will be redirected to the below page.

The screenshot shows the MongoDB Atlas Data Services interface. On the left, a sidebar menu includes options like Deployment, Database (selected), Services, Security, and Advanced. The main area is titled "Database Deployments" and shows "Cluster0". It features a search bar, a "Create" button, and several performance metrics: R: 0, W: 0, Connections: 5.0, In: 15.7 B/s, Out: 213.9 B/s, and Data Size: 906.8 KB. Below these metrics are tabs for VERSION, REGION, CLUSTER TIER, TYPE, BACKUPS, LINKED APP SERVICES, ATLAS SQL, and ATLAS S. A large green "Upgrade" button is visible.

Now click on browse collections in cluster 0.

The screenshot shows the MongoDB Atlas Data Services interface, specifically the "Collections" tab for the "ResearchPapersRepo.allowedusers" collection in "Cluster0". The collection has 4 documents. The interface includes tabs for Overview, Real Time, Metrics, Collections (selected), Search, Profiler, Performance Advisor, and Online Archive. It displays storage details: STORAGE SIZE: 36KB, LOGICAL DATA SIZE: 403B, TOTAL DOCUMENTS: 7, INDEXES TOTAL SIZE: 72KB. There are tabs for Find, Indexes, Schema Anti-Patterns, Aggregation, Search Indexes, and Charts. A search bar at the top right allows users to type a query: { field: 'value' }.

On the collections tab, we can see the allowed users, documents, and users.

- In the allowedusers tab, you can find the users who are added by the admin.
- In the documents tab, all the documents uploaded are stored in the form of objects.
- The email and password of the users who registered the application are stored in the users tab. The passwords are here saved as a hash value.

## **Changing the admin details:**

The admin details are hard coded in the environment variable in the code. To change the admin email please go to the .env file in the Backend folder. Modify the ADMIN\_EMAIL with the email address of the new admin.

## **Credentials:**

- Gmail credentials:
  - ◆ Email ID → [research.paper.repo@gmail.com](mailto:research.paper.repo@gmail.com)
  - ◆ Password → TexasTechUniversity
- GitHub credentials:
  - ◆ Email ID/username → [research.paper.repo@gmail.com](mailto:research.paper.repo@gmail.com)
  - ◆ Password → TexasTechUniversity
- MongoDB credentials: login via Google
  - ◆ Email address → [research.paper.repo@gmail.com](mailto:research.paper.repo@gmail.com)
  - ◆ Password → TexasTechUniversity