User Manual for User Authentication System

Introduction

This system provides functionalities to securely store user credentials, verify user login attempts, and manage user accounts. This manual will guide you through the process of setting up and using the system.

Setup

1. **Installation**: Ensure that you have Node.js and MongoDB installed on your system.

2. **Configuration**: Set up a `.env` file in the project directory with the following configurations:

```
URI=<your_mongodb_uri>
```

3. Replace `<your_mongodb_uri>` with the URI of your MongoDB database.

4. **Install Dependencies**: Run `npm install` in the project directory to install the required dependencies.

5. **Start the Server**: Run `npm start` to start the server. The server should now be running and ready to handle requests.

Usage

1. Uploading User Information

To upload user information from `password.txt` to the MongoDB database:

1. Ensure that the `password.txt` file is located in the project directory and contains user email addresses and passwords in the following format:

```
email1@example.com:password1
email2@example.com:password2
...
```

2. Execute the `signupUsers` function in the project. This function reads the user information from `password.txt`, encrypts the passwords, and uploads the data to the MongoDB database.

2. User Login Verification

To verify user login attempts:

1. Use the provided login functionality to submit an email address and password.

2. The system will validate the provided credentials against the encrypted passwords stored in the database.

3. If the credentials match, the system will return `true`, indicating successful login. Otherwise, it will return `false`.

Troubleshooting

If you encounter any issues or errors during setup or usage, refer to the following troubleshooting tips:

- **Database Connection**: Ensure that the MongoDB URI specified in the `.env` file is correct and that MongoDB is running.

- **File Paths**: Double-check the file paths for `password.txt` and `password.enc.txt` to ensure that the system can access and write to these files.

- **Dependencies**: Make sure all dependencies are installed correctly by running `npm install` again.