Starting the Application

Start the application using the run.sh script.

Make the Script Executable:

```
chmod +x startup.sh
chmod +x run.sh
```

Execute the Script:

```
./startup.sh
./run.sh
```

The application will start in development mode and can be accessed at http://localhost:3000.

API Endpoints

Users

- Sign Up
 - Endpoint: POST /api/users/signup
 - o **Description**: Registers a new user.

Request Body:

```
{
  "email": "user@example.com",
  "password": "Password123!",
  "firstName": "John",
  "lastName": "Doe",
  "avatar": "avatar.jpg",
  "phoneNumber": "123-456-7890",
  "isAdmin": true
}
```

Login

```
○ Endpoint: POST /api/users/login
```

o **Description**: Authenticates a user and returns a JWT token.

```
Request Body:
  "email": "user@example.com",
  "password": "Password123!"
}

    Edit user

         Endpoint: POST /api/users/[id]
         o Description: Updates user information
Request Body:
  "email": "user@example.com",
  "password": "Password123!"
}

    Logout user

         Endpoint: POST /api/users/logout
         o Description: Invalidates user token
Request Body:
{
      "refreshToken": "{{accessToken}}"
}
Blogs

    Create blog

         Endpoint: POST /api/blogs
         o Description: Creates new blog
         Headers: Authorization: Bearer YOUR_JWT_TOKEN
```

Request Body:

"title": "New Blog",

{

```
"content": "Hello world, this is a newly created blog!"
}

    Update blog

         Endpoint: POST /api/blogs/[id]

    Description: Updates blog

         Headers: Authorization: Bearer YOUR_JWT_TOKEN
Request Body:
{
    "title": "Title of newly updated blog",
    "content": "Newly updated content!"
}

    Delete blog

         Endpoint: DELETE /api/blogs/[id]

    Description: Deletes blog

         Headers: Authorization: Bearer YOUR_JWT_TOKEN

    View blogs sorted

         Endpoint: GET /api/blogs

    Description: View blogs sorted by votes

Comments

    Create comment

         Endpoint: POST /api/comments

    Description: Creates new comments. Blogld for comment, commented for reply

         Headers: Authorization: Bearer YOUR_JWT_TOKEN
Request Body:
{
    "content": "Hello world, this is a newly created comment!",
    "blogId or commentId": 1
}
   • Update comment
         Endpoint: POST /api/comment/[id]
         • Description: Updates comment
```

Headers: Authorization: Bearer YOUR_JWT_TOKEN

```
Request Body:
    "comment": "Updated comment",
    "blogId or commentId": 1
}
   • Delete comment
         Endpoint: DELETE /api/comment/[id]
         o Description: Deletes comment

    Headers: Authorization: Bearer YOUR_JWT_TOKEN

Reports
   • Create/edit report
         Endpoint: POST /api/blogsORcomments/[id]/report
         o Description: Reports blog or comment. Create if DNE, edit if exists

    Headers: Authorization: Bearer YOUR_JWT_TOKEN

Request Body:
    "blogIdORcommentId": 1,
    "reason": "This is a test report on a bad blog!"
}
   • Delete report
         Endpoint: DELETE /api/blogsORcomments/[id]/report
         o Description: Deletes comment
         • Headers: Authorization: Bearer YOUR_JWT_TOKEN
Votes

    Create/edit votes

         Endpoint: POST /api/blogsORcomments/[id]/vote
         • Description: Vote on blog or comment. Create if DNE, edit if exists
         Headers: Authorization: Bearer YOUR_JWT_TOKEN
Request Body:
    "blogIdORcommentId": 1,
    "voteValue": 1
```

Delete vote

Endpoint: DELETE /api/blogsORcomments/[id]/vote

o **Description**: Deletes vote

Headers: Authorization: Bearer YOUR_JWT_TOKEN

Admin

- View reported content
 - Endpoint: GET /api/admin
 - Description: View blogs and comments with reports (sorted)
 - Headers: Authorization: Bearer YOUR_JWT_TOKEN

• Hide blog/comment

- Endpoint: POST /api/blogsORcomments/[id]
- o **Description**: Hides blog/comment
- Headers: Authorization: Bearer YOUR_JWT_TOKEN

Request Body:

```
{
    "isHidden": true
}
```

Code Templates

- Create a Template
 - Endpoint: POST /api/templates
 - o **Description**: Creates a new code template.
 - Headers: Authorization: Bearer YOUR_JWT_TOKEN

Request Body:

```
"title": "Sample Code Template",
  "explanation": "This is a sample code template.",
  "code": "console.log('Hello, World!');",
  "tags": ["sample", "test"],
  "isFork": false
```

```
}
   • Get All Templates
         Endpoint: GET /api/templates
         o Description: Retrieves all code templates with optional filters.
         Query Parameters:
               search: Search term.
               tags: Comma-separated tags.
               page: Page number.
               ■ limit: Items per page.

    Get a Template by ID

         o Endpoint: GET /api/templates/{id}

    Description: Retrieves a single code template by ID.

   • Update a Template
         o Endpoint: POST /api/templates/{id}

    Description: Updates an existing code template.

         Headers: Authorization: Bearer YOUR_JWT_TOKEN
Request Body:
  "title": "Updated Title",
  "explanation": "Updated explanation.",
  "code": "console.log('Updated code');",
  "tags": ["updated", "example"]
}
   • Delete a Template
         o Endpoint: DELETE /api/templates/{id}

    Description: Deletes a code template.

         Headers: Authorization: Bearer YOUR_JWT_TOKEN

    Fork a Template

         Endpoint: POST /api/templates/{id}/fork

    Description: Forks an existing code template.

         Headers: Authorization: Bearer YOUR_JWT_TOKEN
Request Body:
  "title": "Forked Template Title",
```

```
"explanation": "This is a forked version.",
  "code": "// Modified code...",
  "tags": ["forked", "example"]
}
```

Code Execution

- Execute Code
 - Endpoint: POST /api/execute
 - Description: Executes code in a specified programming language.

Request Body:

Testing the API

Use a tool like Postman to test the API endpoints. Ensure you include the Authorization header with the JWT token for protected routes.

Example: Testing Code Execution

• Endpoint: POST /api/execute

Request Body:

```
{
   "language": "python",
   "code": "print('Hello, World!')"
}
```

•

Expected Response:

```
{
   "output": "Hello, World!\n"
}
```