

# Developer Bay

An “Advanced Web Applications” Project

Student: Javier Cordero Luna

Student Number: 001109298

## Introduction

Developer Bay is a platform designed for developers to share their code snippets. The platform allows users to post, view, and comment on code snippets. It also features user authentication to ensure that only registered users can post or comment.

## Technologies Used

- Backend: Node.js with Express framework
- Database: MongoDB
- Authentication: JWT
- Frontend: PUG templates and Bootstrap CSS framework

## Features

- User Authentication
  - Users have to register and log in to access the posting and commenting features
  - JWT token is used for authentication
- Posting and Commenting
  - Authenticated users can post new code snippets
  - Authenticated users can comment on existing posts
  - Non-authenticated users can view posts and comments but cannot post or comment
- Listing and Viewing Posts
  - All posts are listed on the home page
  - Users can click on a post to view the details and comments
- Responsive Design
  - The platform is designed to work seamlessly on both desktop and mobile devices
  - Bootstrap CSS framework is used for responsive design

### Optional Features

- Edit and Delete Posts (4 points)
  - Authenticated users can edit and delete their own posts
  - Admin users can edit and delete any post (Not implemented yet)
- User Profiles (2 points)
  - Users can view and edit their profiles
- Tags in Posts (2 points; Added by my own)
  - Posts can be tagged to make them easily searchable
- Last Edited Timestamp (2 points)
  - The timestamp of the last edit made on a post or comment is stored and displayed
- Pagination (2 points)
  - Pagination is used to display less than 11 posts on a page
- Code Highlighting (2 points)
  - Code snippets are highlighted using the highlight.js library

**Total optional points: 14 points aimed**

### Installation Guidelines

1. Clone the project from GitHub
2. Install Node.js on your machine
3. Install MongoDB on your machine  
(url: "mongodb://localhost:27017/developerBay")
4. Open the terminal in the project directory and run "npm install" to install all the dependencies
5. Run "npm start" to start the server
6. Open a web browser and navigate to <http://localhost:3000> to view the application

### User Manual

#### Registering:

- To register for the application, click on the "Register" button
- Fill out the registration form
- Click on the "Register" button to complete the registration process.

#### Logging In:

- To log in to the application, click on the "Log In" button
- Enter your username and password into the login form.
- Click on the "Log In" button to log in to the application.

#### Posting a Code Snippet:

- To post a code snippet, log in to the application.
- Click on the "New Snippet"
- Fill out the post form with the information required
- Click on the submission button to submit the post.

#### Commenting on a Code Snippet:

- To comment on a code snippet, click on the post title on the main page to open the post.
- Scroll down to the comments section.
- Fill out the comment form with your comment.
- Click on the "Post" button to submit the comment.

#### Viewing Posts:

- To view all the posts, navigate to the main page of the application.
- Click on a post title to view the post and comments.

#### Editing a Post:

- To edit a post, log in to the application.
- Click on the post title on the main page to open the post.
- Click on the "Edit" button on the post page.
- Edit the information you want
- Click on the "Save" button to save the changes.

#### Deleting a Post:

- To delete a post, log in to the application.
- Click on the post title on the main page to open the post.
- Click on the "Delete" button on the post page.
- Confirm that you want to delete the post.

#### Viewing User Profile:

- To view your user profile, log in to the application.
- Click on the "Profile" button.
- View your profile information.

#### Editing User Profile:

- To edit your user profile, log in to the application.
- Click on the "Profile" button in the top right corner of the screen.
- Click on the "Edit Profile" button.
- Edit your profile information.
- Click on the "Save" button to save the changes.

## Conclusion

Developer Bay is a user-friendly platform for developers to share their code snippets. With its easy-to-use interface, responsive design, and various features, Developer Bay is a great tool for sharing and discovering new code snippets.