

CODE SNIPPET RECOMMENDER

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TEAM 8

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Modules

We have worked on the application to upload and search for Code Snippets.

The features include a Login and Sign-up page, a Search for the desired snippets, view of the search results. Users can also log in to upload code snippets along with tags. Search results will return code snippets based on the tags entered by the uploaded user.

```
243 void showNote(int mm){
244     FILE *fp;
245     int i = 0, isFound = 0;
246     system("cls");
247     fp = fopen("note.dat", "rb");
248     if(fp == NULL){
249         printf("Error in opening the file");
250     }
251     while(fread(&R, sizeof(R), 1, fp) == 1){
252         if(R.mm == mm){
253             gotoxy(10, 5+1);
254             printf("Note %d Day = %d: %s", i+1, R.dd, R.note);
255             isFound = 1;
256             i++;
257         }
258     }
259     if(isFound == 0){
260         gotoxy(10, 5);
261         printf("This Month contains no note");
262     }
263     gotoxy(10, 7+1);
264     printf("Press any key to back.....");
265     getch();
266 }
```

Login and sign up:

*The **login** button is added on the **top right** corner of the screen. Users can click on the button and will be navigated to the login page, in case of new user registration, the user can click on sign up.*

*For **signup**, the user should enter the values: Username, Password, and Confirm Password. For login, the user should enter the values: Username, and Password.*

*The username is **unique** and cannot be reused for a different account, it will throw an error, "**User with a username already exists**".*

*Password should be a minimum of **5** characters.*

*The 'Code Snippet recommender' on the left top will always **navigate** to the homepage.*

 Search

Log In

User Name

Password

LOG IN

Don't have an account yet? [Sign up](#)

Create an Account

User Name

Password

Confirm Password

SIGN UP

Search for the tags and view the snippet

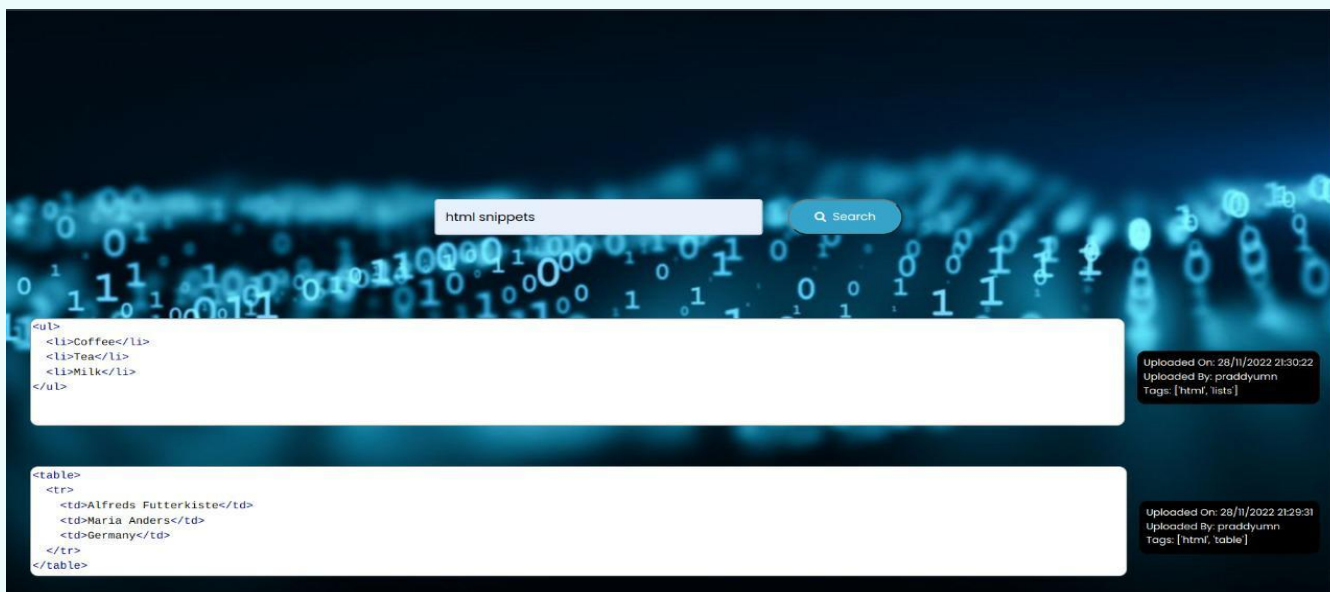
User registration is **not mandatory** to search the results. On the homepage of the application (logged in or before logging in as well), users can view the search page.

Users can add the search query in the search box and press **enter** or click on the “**search**” button. Search is **not case-sensitive**. The search should have a **minimum of 3 characters**.

When a user searches for snippets, the query is parsed by removing the whitespaces and every tokenized word in the query is then matched with the tags of MongoDB documents returned from the database. If there is a **match of the tokenized word with any of the tags (of at least 3 characters)**, then that document (code snippet) is added to the results.

The query will fetch snippets and will be displayed on the search screen. Users can **view** the list of all snippets along with the details (uploaded by, uploaded on, and the tags). The snippets are **sorted** based on the latest uploaded snippet. If the searched query does not match with the tags “**Oops no result to Display**” a message will be displayed.

Users can copy the snippet using the “**Copy**” button placed on the top right side of the respective snippet.



Upload Snippet

To upload a code snippet, the user should **log in** to the application. If the user is not registered, they must sign up and then proceed to upload. Once the user logs in, the search button is displayed on the homepage. On clicking on the **profile**, the user will see two options, upload and log out. Users can click on the upload option, and he/she will be navigated to the upload form.

Users should enter the tags as comma-separated values and code snippets in the designated fields and click on add to upload the snippet. The whitespaces are removed in tags while uploading the snippet.

The image displays two screenshots of a web application titled "CODE SNIPPET RECOMMENDER".

The top screenshot shows the homepage. At the top right, the username "praddyumn" is displayed with a dropdown arrow. Below it, a menu contains "Upload" and "Logout" options. In the center, there is a search bar with the placeholder text "Enter your query" and a "Search" button. The background features a blue gradient with floating binary code (0s and 1s).

The bottom screenshot shows the "Upload Code" form. It has a title bar "Upload Code". Below it, there are two input fields: "Tags: Write tags here separated by comma..." and "Code: Write code here...". At the bottom of the form is a green "Add" button. The background is the same blue gradient with binary code as the top screenshot.

Use Case 1 - Login

1. The user clicks on the login button from the left corner of the screen.
2. The user is taken to the login page.
3. The user adds the login details.
4. The user is taken to the homepage and the user can view the search box.
5. The user can click on the profile button to view the upload option.
6. The user will now see the upload form.
7. The user can add the tags and the code snippet
8. The user will now click on Add button
9. The code snippet is uploaded.

Use Case 2 - Signup

1. The user clicks on the login button from the left corner of the screen.
2. The user is taken to the login page.
3. The user is registering, so the user clicks on the Signup option.
4. The user adds the username, and password and confirms password details.
5. The user is taken to the homepage and the user can view the search box.

Use Case 3 – Login and Upload

1. The user clicks on the login button from the left corner of the screen.
2. The user is taken to the login page.
3. The user adds the login details.
4. The user is taken to the homepage and the user can view the search box.
5. The user can click on the profile button to view the upload option.
6. The user will now see the upload form.
7. The user can add the tags and the code snippet
8. The user will now click on Add button
9. The code snippet is uploaded.

Use Case 4 – Login, Upload, and Logout

1. The user clicks on the login button from the left corner of the screen.
2. The user is taken to the login page.
3. The user adds the login details.
4. The user is taken to the homepage and the user can view the search box.
5. The user can click on the profile button to view the upload option.
6. The user will now see the upload form.
7. The user can add the tags and the code snippet.
8. The user will now click on the Add button.
9. The code snippet is uploaded.
10. The user can click on the Logout button
11. The user is logged out.

Use Case 5 - Search

1. In the homepage user can view the search box.
2. The user enters the search query and clicks on the enter or search button.
3. The user can view the search results.
4. The user can view the upload details and copy button.
5. The user can view the copy button.

Use Case 6 – Search and Copy

1. In the homepage user can view the search box.
2. The user enters the search query and clicks on the enter or search button.
3. The user can view the search results.
4. The user can view the upload details and copy button.
5. The user can click on the copy button to copy and paste the details.

Use Case 7 – Login and Search

1. The user clicks on the login button from the left corner of the screen.
2. The user is taken to the login page.
3. The user adds the login details.
4. The user is taken to the homepage and user can view the search box.
5. The user clicks on the enters the search query.
6. The user can view the search results.
7. The user can view the upload details and copy button.

Use Case 8 – Login, Search, and copy

1. The user clicks on the login button from the left corner of the screen.
2. The user is taken to the login page.
3. The user adds the login details.
4. The user is taken to the homepage and user can view the search box.
5. The user clicks on the enters the search query.
6. The user can view the search results.
7. The user can view the upload details and copy button.
8. The user can click on the copy button to copy and paste the details.

Happy Searching