

## DEVOPS LAB

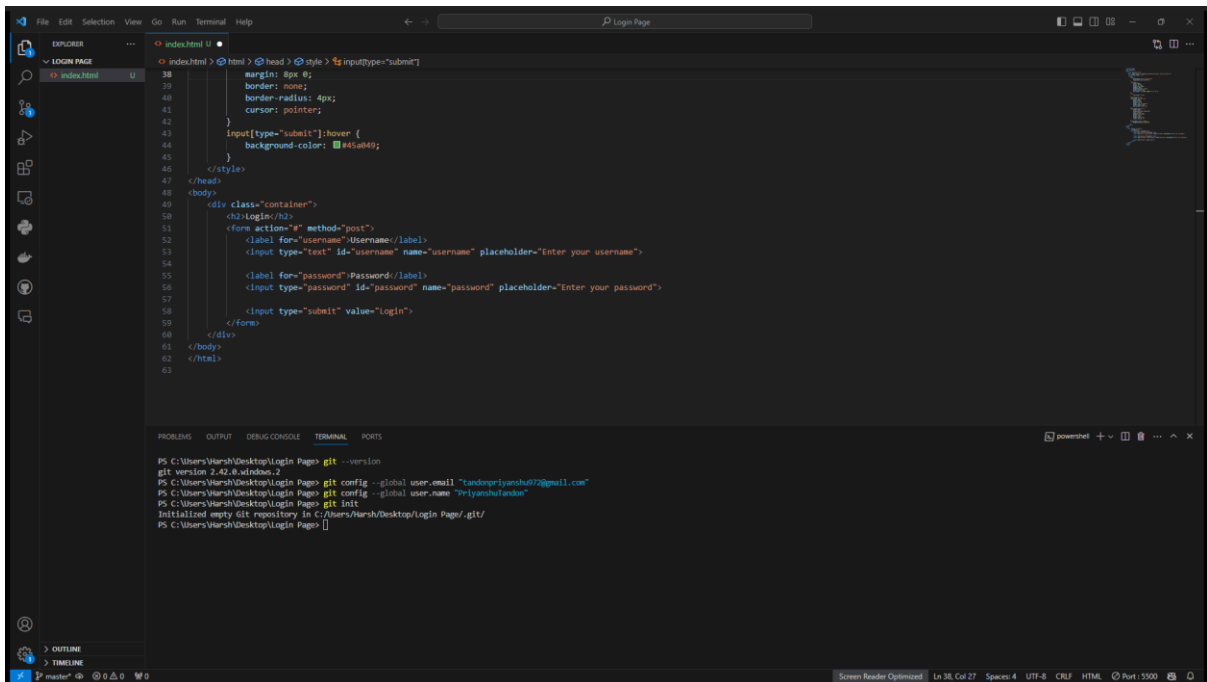
Name- Kartikay kanojia

Sap id – 500090998

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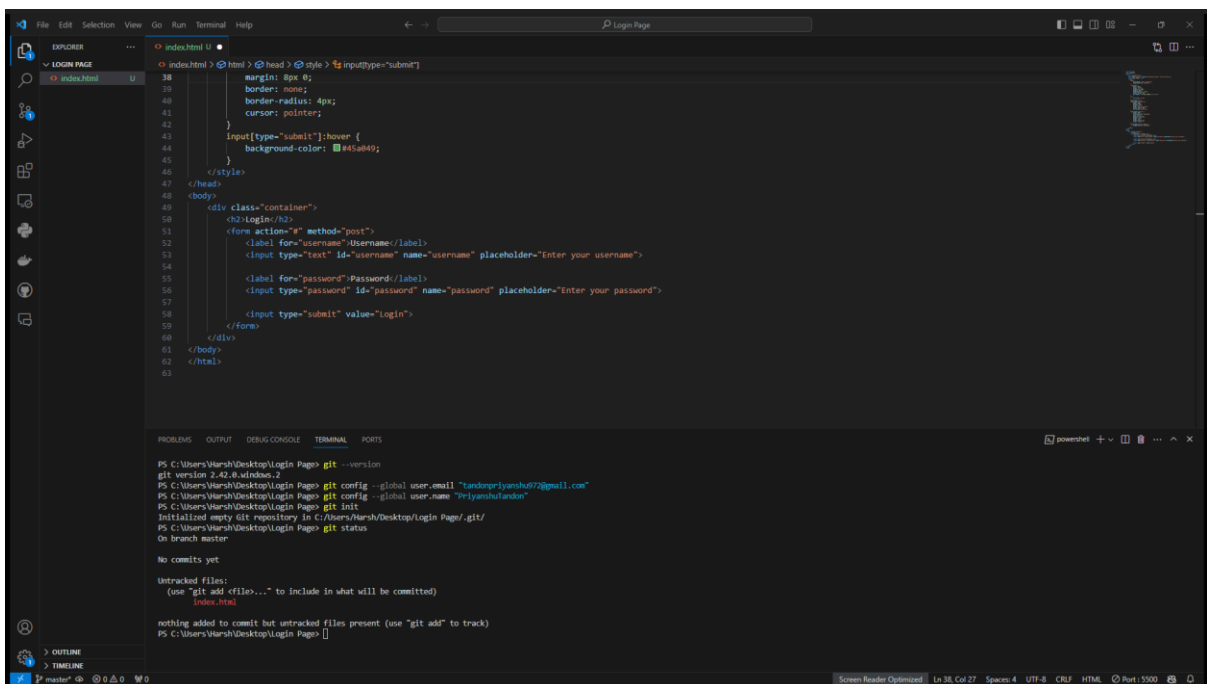
### LAB-4 (Introduction to Version Control System - Git and GitHub)

#### Step 1: Initialize a git repository for version control



The screenshot shows the Visual Studio Code editor with a file named `index.html` open. The code is an HTML login form. Below the editor, the terminal window is active, showing the following commands and output:

```
PS C:\Users\Varsh\Desktop>Login Page> git --version
git version 2.42.0.windows.2
PS C:\Users\Varsh\Desktop>Login Page> git config --global user.email "tandogriyanshu07@gmail.com"
PS C:\Users\Varsh\Desktop>Login Page> git config --global user.name "PriyanshuTandon"
PS C:\Users\Varsh\Desktop>Login Page> git init
Initialized empty git repository in C:\Users\Varsh\Desktop>Login Page\git\
PS C:\Users\Varsh\Desktop>Login Page>
```



The screenshot shows the Visual Studio Code editor with the same `index.html` file. The terminal window now shows the output of the `git status` command:

```
PS C:\Users\Varsh\Desktop>Login Page> git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        index.html

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\Varsh\Desktop>Login Page>
```

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## Step 2: Implement a basic login page using Html

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Login Page</title>
7 <style>
8
9     body {
10         font-family: Arial, sans-serif;
11         background-color: #f4f4f4;
12     }
13     .container {
14         width: 300px;
15         margin: 0 auto;
16         margin-top: 100px;
17         padding: 20px;
18         background-color: #fff;
19         border-radius: 5px;
20         box-shadow: 0 0 10px 0 rgba(0, 0, 0, 0.3);
21     }
22     h2 {
23         text-align: center;
24     }
25     input[type="text"],
26     input[type="password"] {
27         width: 100%;
28         padding: 10px;
29         margin: 5px 0;
30         border: 1px solid #ccc;
31         border-radius: 4px;
32         box-sizing: border-box;
33     }
34     input[type="submit"] {
35         width: 100%;
36         background-color: #4caf50;
37         color: white;
38         padding: 10px 20px;
39         margin: 5px 0;
40         border: none;
41         border-radius: 4px;
42         cursor: pointer;
43     }
44     input[type="submit"]:hover {
45         background-color: #455a84;
46     }
47 </style>
48 </head>
49
50 <body>
51     <h2>Login</h2>
52     <input type="text" value="Username"/>
53     <input type="password" value="Password"/>
54     <input type="submit" value="Login"/>
55 </body>
56 </html>

```

## Step 3: Commit changes at different stages of development

```

PS C:\Users\Harsh\Desktop\Login Page> git add .
PS C:\Users\Harsh\Desktop\Login Page> git commit -m "added basic login page"
[master (root-commit) 2f0b30] added basic login page
1 file changed, 62 insertions(+)
create mode 100644 index.html
PS C:\Users\Harsh\Desktop\Login Page>

```

```

PS C:\Users\Harsh\Desktop\Login Page> git branch -M main
PS C:\Users\Harsh\Desktop\Login Page> git remote add origin https://github.com/Priyanshut972/Login-Page.git

```

```

PS C:\Users\Harsh\Desktop\Login Page> git pull origin main --allow-unrelated-histories
From https://github.com/Priyanshut972/Login-Page
* branch      main      -> FETCH_HEAD
Merge made by the 'ort' strategy.
 README.md | 1 +
 1 file changed, 1 insertion(+)
create mode 100644 README.md
PS C:\Users\Harsh\Desktop\Login Page> git push origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 1.13 KiB | 1.13 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
to https://github.com/Priyanshut972/Login-Page.git
b0eb701...2f0b30 main -> main
PS C:\Users\Harsh\Desktop\Login Page>

```

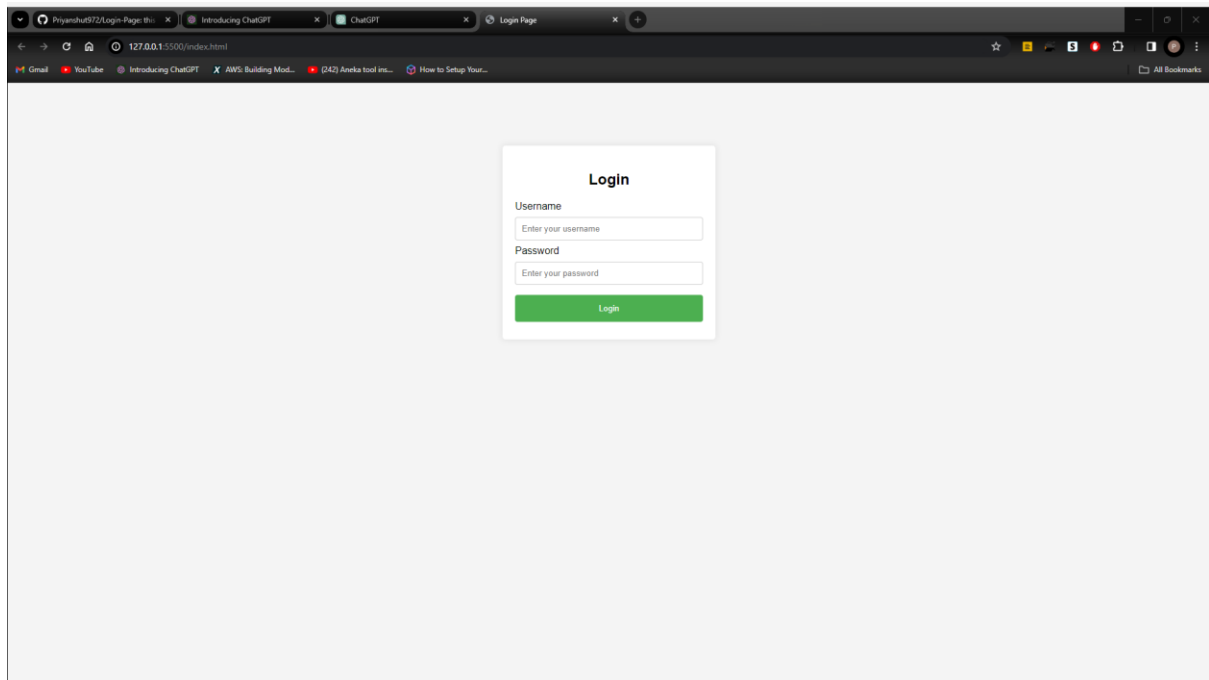
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### Step 4: Test the login page



### Step 5: Perform Additional changes and commit added the box same as submit as NO (Line 59)

```
index.html > html > body > div.container > form
35      background-color: #4caf50;
36      color: white;
37      padding: 14px 20px;
38      margin: 8px 0;
39      border: none;
40      border-radius: 4px;
41      cursor: pointer;
42    }
43    input[type="submit"]:hover {
44      background-color: #45a049;
45    }
46  </style>
47 </head>
48 <body>
49   <div class="container">
50     <h2>Login</h2>
51     <form action="#" method="post">
52       <label for="username">Username</label>
53       <input type="text" id="username" name="username" placeholder="Enter your username">
54     </div>
55     <label for="password">Password</label>
56     <input type="password" id="password" name="password" placeholder="Enter your password">
57   </div>
58   <input type="submit" value="Login">
59   <input type="NO" value="NO">
60 </form>
61 </div>
62 </body>
63 </html>
64
```

```
PS C:\Users\Varsh\Desktop\Login Page> git add .
PS C:\Users\Varsh\Desktop\Login Page> git commit -m "added basic login page"
[main 09a1744] added basic login page
1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\Varsh\Desktop\Login Page> git branch -M main
PS C:\Users\Varsh\Desktop\Login Page> git remote add origin https://github.com/Priyanshu972/Login-Page.git
error: remote origin already exists.
PS C:\Users\Varsh\Desktop\Login Page> git pull origin main --allow-unrelated-histories
From https://github.com/Priyanshu972/Login-Page
* branch      main       -> FETCH_HEAD
Already up to date.
PS C:\Users\Varsh\Desktop\Login Page> git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Priyanshu972/Login-Page.git
072820..09a1744  main -> main
PS C:\Users\Varsh\Desktop\Login Page>
```

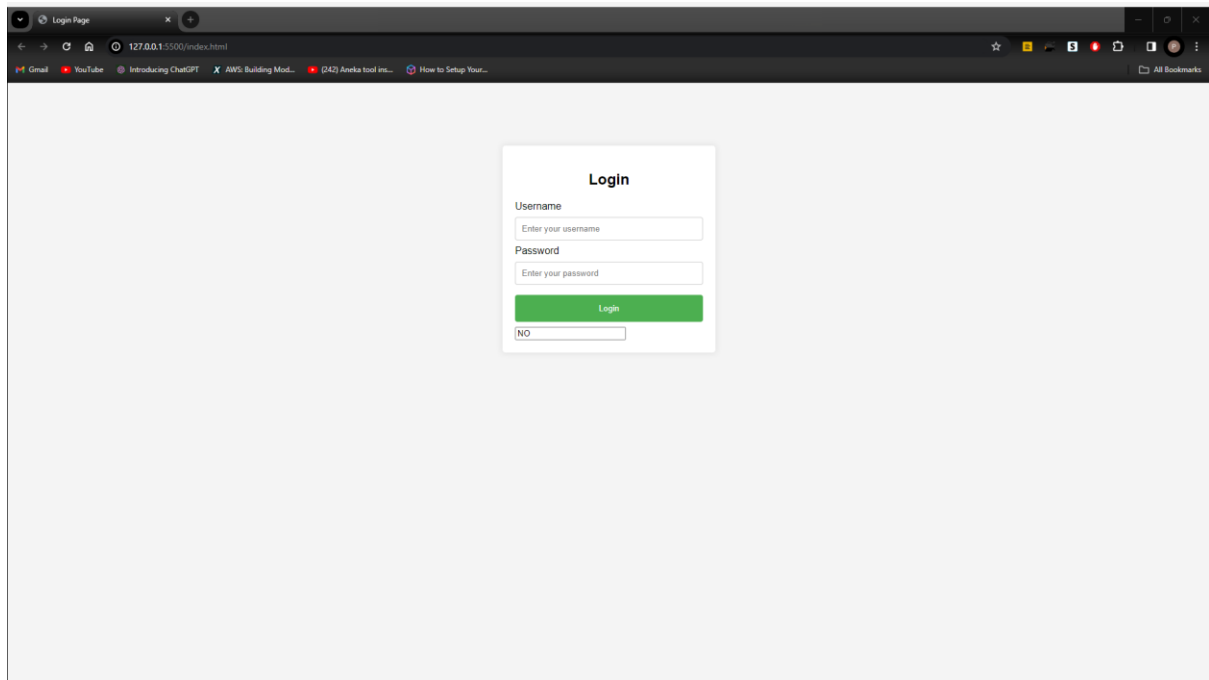
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Step 6: Test the login page again we can see NO text box is added



Step 7: Check whether index.html is available in GitHub or not

