

CCL Assignment 6

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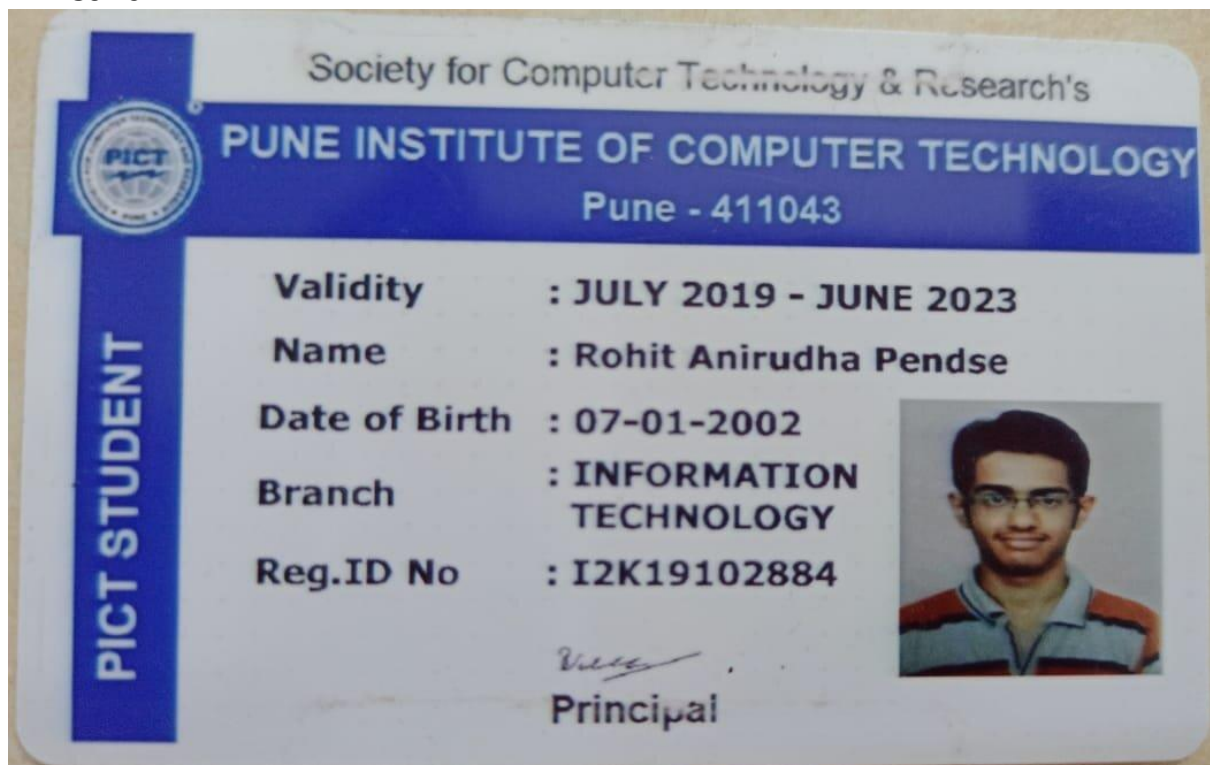
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Assignment - 6 CCL

Aim: PaaS Environment

Problem statement: Design & deploy a web application in PaaS environment

Theory:

Q 1. What is PaaS environment?

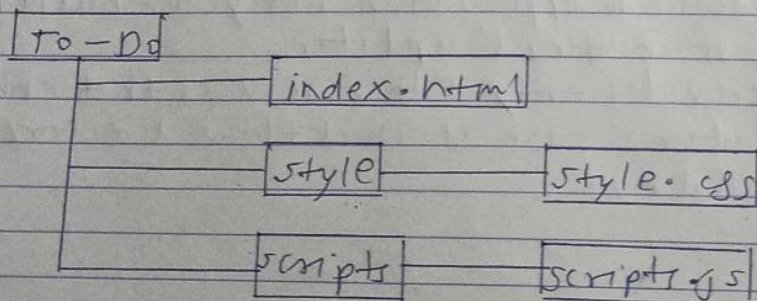
- Platform as a Service (PaaS) is a complete development framework/environment in cloud with resources that enable you to deliver everything from simple cloud based apps to sophisticated, cloud-based enterprise applications.
- PaaS includes services like middleware development tools, business intelligence (BI), database management systems and more. PaaS is designed to support complete web application lifecycle, building, testing, managing & updating.
- PaaS provides ~~only~~ other services that enhance applications such as workflow, directory, security & scheduling.

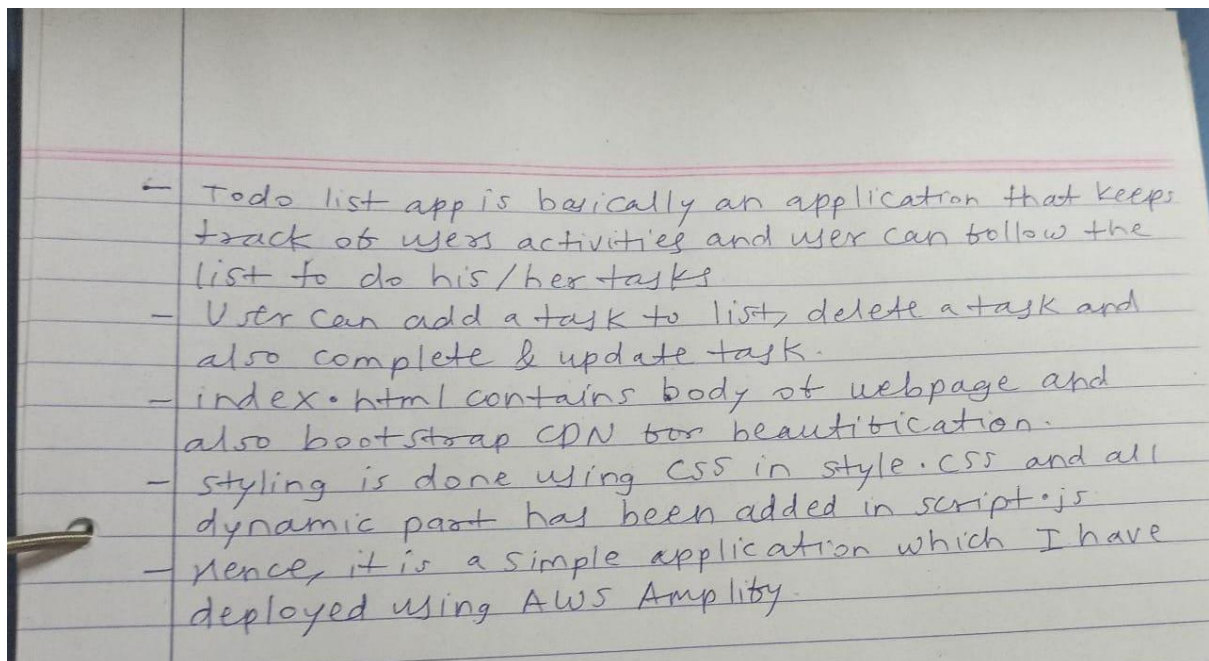
Q.2. What PaaS environment is used for?
PaaS provides a framework that developers can build upon to develop or customize cloud based applications.

- PaaS lets developers create applications using built-in software.
- Tools provided as a service with PaaS allow organizations to analyze & mine their data, finding insights & patterns & predicting outcomes to improve forecasting, product design, investments & other business decisions.
- PaaS services may also be used to enhance workflows, security & scheduling.

Q.3 Explain web application which is designed and developed.

- Web app designed using HTML, CSS, JS is To do list app.
- Directory structure for application is as follows:

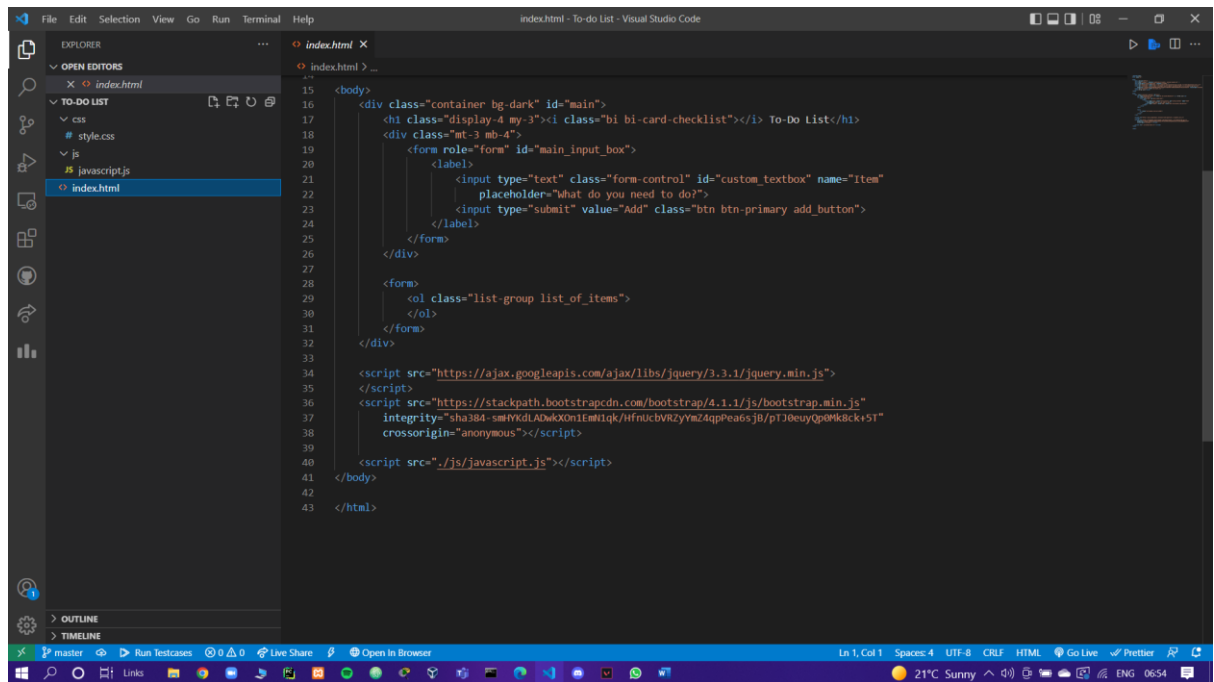




Code Screenshots:

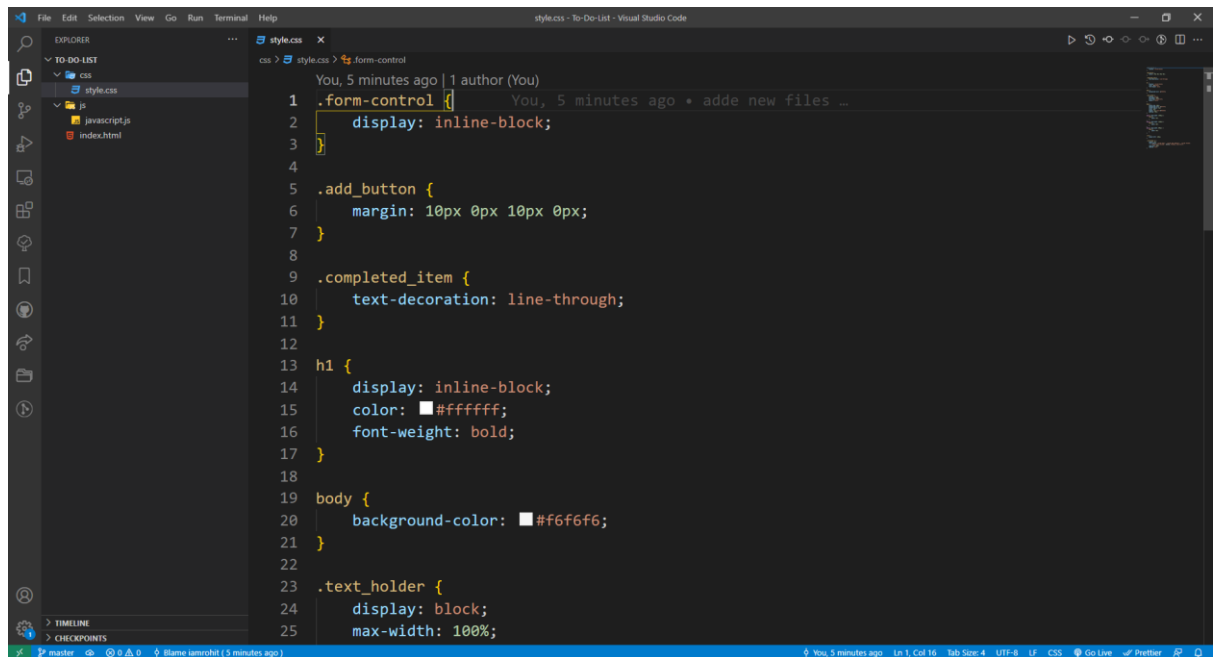
1. Index.html:

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8" />
6   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7   <meta http-equiv="X-UA-Compatible" content="ie=edge" />
8   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.7.2/font/bootstrap-icons.css">
9   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css"
10     integrity="sha384-wkhaSGfPMWUdCw70/dFVBj47jz9qbsM1d/1RN3ewghXQFZCSftd1ZCfmhktB" crossorigin="anonymous" />
11   <link rel="stylesheet" href="css/style.css" />
12   <title>To-Do List</title>
13 </head>
14
15 <body>
16   <div class="container bg-dark id="main">
17     <h1 class="display-4 my-3"><i class="bi bi-card-checklist"></i> To-Do List</h1>
18     <div class="mt-3 mb-4">
19       <form role="form" id="main_input_box">
20         <div>
21           <input type="text" class="form-control" id="custom_textbox" name="Item"
22             placeholder="What do you need to do?">
23           <input type="submit" value="Add" class="btn btn-primary add_button">
24         </div>
25       </form>
26     </div>
27
28     <form>
29       <ol class="list-group list_of_items">
30       </ol>
31     </form>
32   </div>
33
34   <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
35   </script>
36   <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"
37     integrity="sha384-smYkDADwKXon1EMN1qk/HfrucbVRZymZ4qPea6j8/pT30euyQp0mk8ck+5T"
38     crossorigin="anonymous"></script>
```

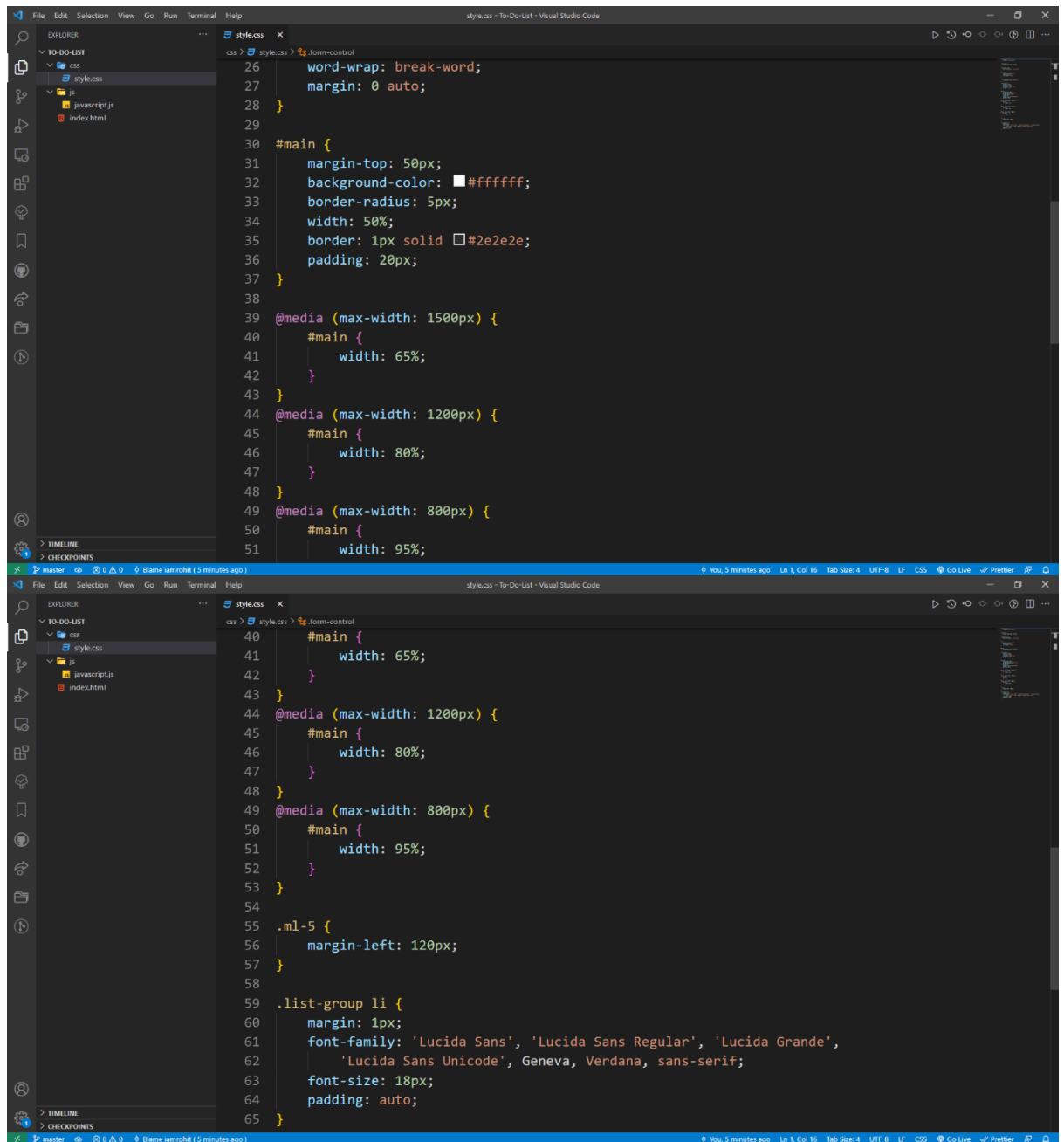


```
15 <body>
16 <div class="container bg-dark id="main">
17 <h1 class="display-4 my-3"><i class="bi bi-card-checklist"></i> To-Do List</h1>
18 <div class="mt-3 mb-4">
19 <form role="form" id="main_input_box">
20 <label>
21 <input type="text" class="form-control" id="custom_textbox" name="Item"
22 placeholder="what do you need to do?">
23 <input type="submit" value="Add" class="btn btn-primary add_button">
24 </label>
25 </form>
26 </div>
27 <form>
28 <ol class="list-group list_of_items">
29 </ol>
30 </form>
31 </div>
32
33
34 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
35 </script>
36 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"
37 integrity="sha384-sm1VklADWlKX01EM1qk/HfncubVRZym24qPeasj8/pTJ0euyQp0Mkback+5T"
38 crossorigin="anonymous"></script>
39
40 <script src="./js/javascript.js"></script>
41 </body>
42
43 </html>
```

2. Style.css:



```
1 .form-control {
2   display: inline-block;
3 }
4
5 .add_button {
6   margin: 10px 0px 10px 0px;
7 }
8
9 .completed_item {
10  text-decoration: line-through;
11 }
12
13 h1 {
14  display: inline-block;
15  color: #ffffff;
16  font-weight: bold;
17 }
18
19 body {
20  background-color: #f6f6f6;
21 }
22
23 .text_holder {
24  display: block;
25  max-width: 100%;
```

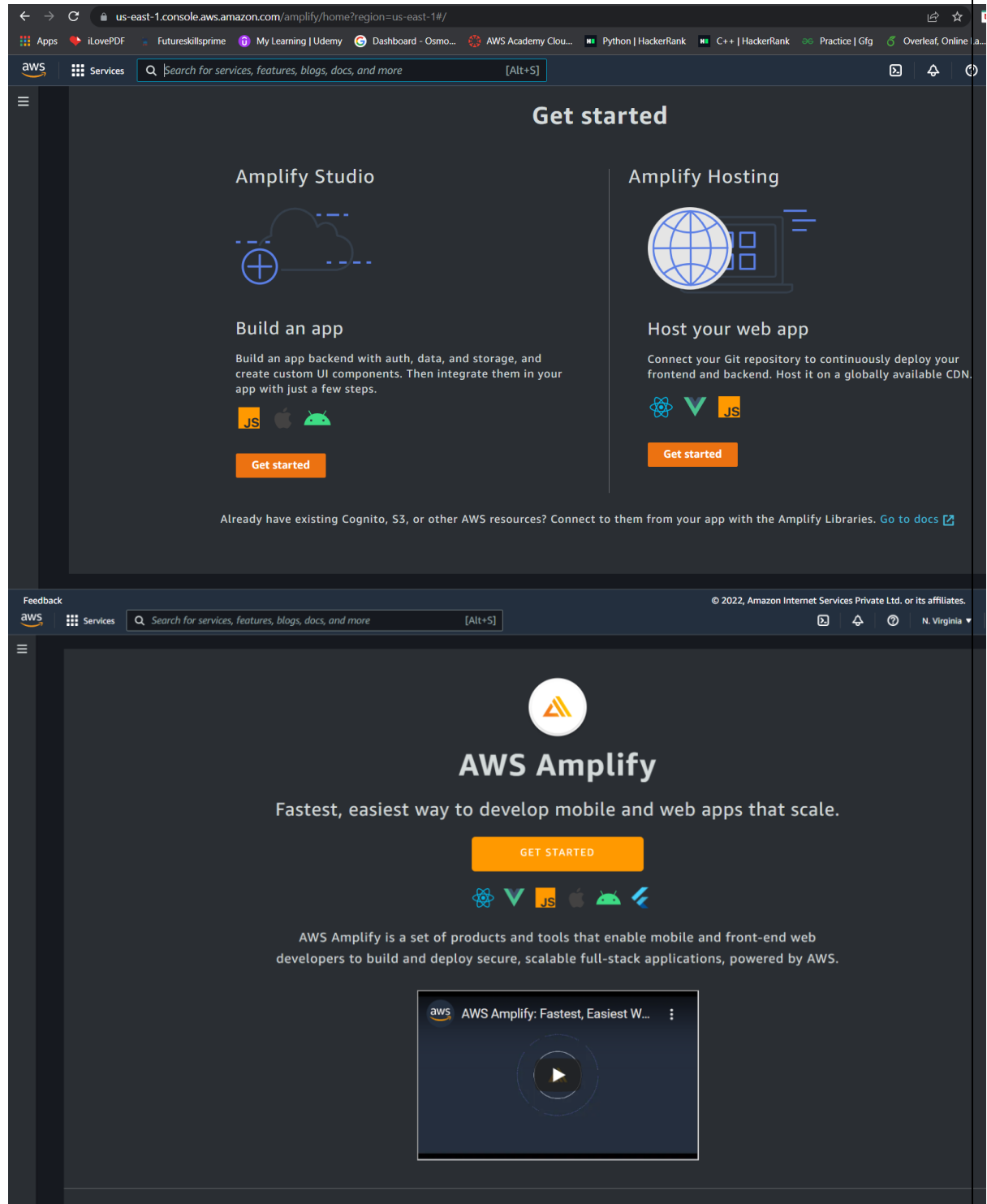


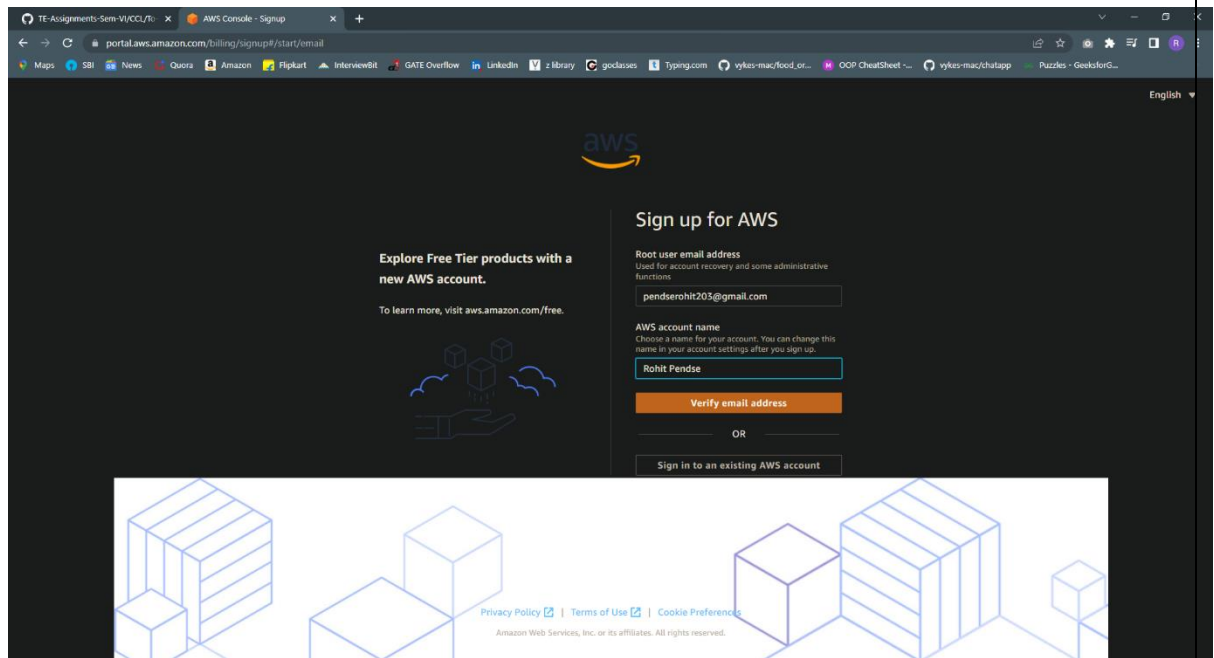
3. Javascript.js:

```
1 $(document).ready(function () {
2     $("form#main_input_box").submit(function (event) {
3         event.preventDefault();
4         var deleteButton = "<button class='delete btn btn-danger'>Delete</button>";
5         var editButton = "<button class='edit btn btn-warning'>Edit</button>";
6         var completeButton = "<button class='complete btn btn-success'>Mark as Complete</button>";
7         var buttons = "<div class='float-right'><span class='mr-1'> " + deleteButton + "</span> " + editButton + "</div>";
8         $(".list_of_items").append("<li class='list-group-item'> " + $("#custom_textbox").val() + "</li>");
9     });
10
11
12     // delete item from list
13     $(".list_of_items").on("click", "button.delete", function () {
14         $(this).closest("li").remove();
15     });
16
17     // edit item
18     $(".list_of_items").on("click", "button.edit", function () {
19         var editItemBox = "<form class='edit_input_box'><input type='text' class='itembox' value='" + $(this).text() + "'></form>";
20         var deleteButton = "<button class='delete btn btn-danger'>Delete</button>";
21         var editButton = "<button class='edit btn btn-warning'>Edit</button>";
22         if ($("#button.complete").text() == "Mark as Complete") {
23             var completeButton = "<button class='complete btn btn-success'>Mark as Complete</button>";
24         } else {
25             var completeButton = "<button class='complete btn btn-success'>Completed</button>";
26         }
27         var buttons = "<div class='float-right'><span class='mr-1'> " + deleteButton + "</span> " + editButton + "</div>";
28         $(this).closest("div.text_holder").replaceWith(editItemBox);
29         $("form.edit_input_box").on("submit", function () {
30             $(this).replaceWith("<div> " + $(".itembox").val() + buttons + "</div>");
31         });
32     });
33
34     // mark item as completed and strike through
35     $(".list_of_items").on("click", "button.complete", function () {
36         if ($(this).text() == "Mark as Complete") {
37             $(this).text("Completed");
38             $(this).closest("li").css("text-decoration", "line-through");
39         } else {
40             $(this).text("Mark as Complete");
41             $(this).closest("li").css("text-decoration", "none");
42         }
43         event.preventDefault();
44     });
45 });
46
```

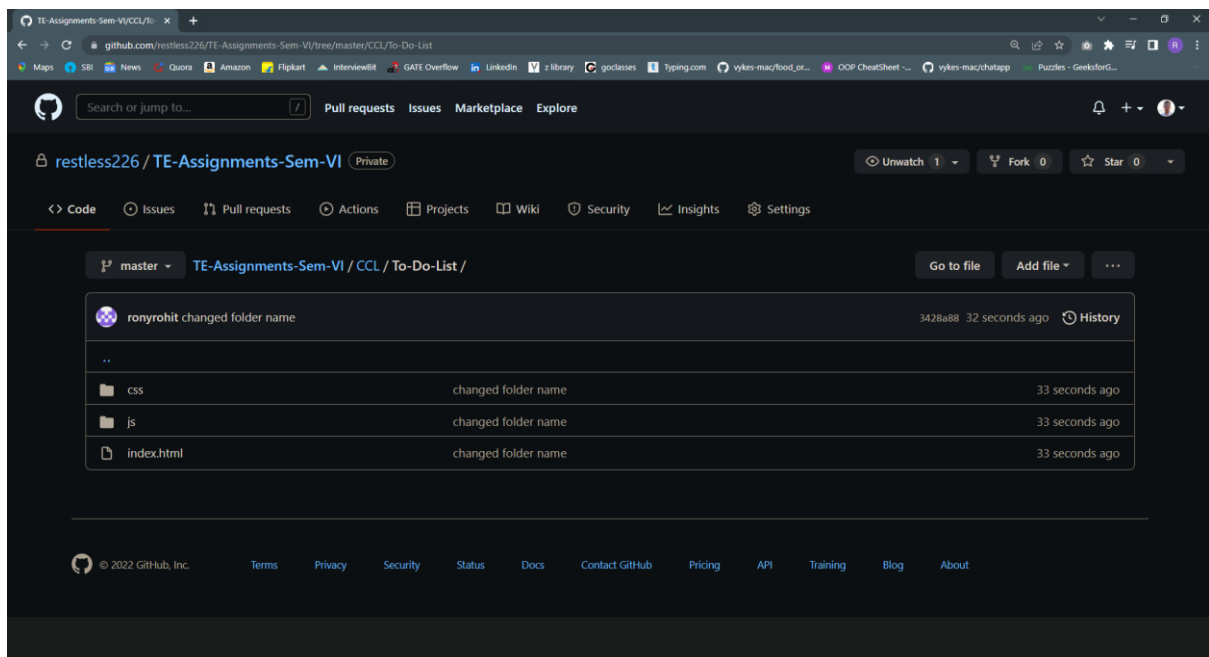
Output Screenshots:

1. AWS Initial Setup:





Other Screenshots:



aws

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Step 1
Add repository branch

Step 2
Configure build settings

Step 3
Review

Review

Repository details

Repository service
GitHub

Repository
yash15122001/To-Do-List

Branch
master

Branch environment

Application root

App settings

App name
To-Do-List

Build image
Using default image

Environment variables
None

Framework
Web

Build settings
Auto-detected settings will be used

Edit

Cancel

Previous

Save and deploy

Feedback

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aws

Services

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Get started with Amplify Hosting

Amplify Hosting is a fully managed hosting service for web apps. Connect your repository to build, deploy, and host your web app.

From your existing code

Connect your source code from a Git repository or upload files to host a web app in minutes.

☒ GitHub

☐ Bitbucket

☐ GitLab

☐ AWS CodeCommit

☐ Deploy without Git provider

Amplify Hosting requires read-only access to your repository.

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Final Output Screenshots:

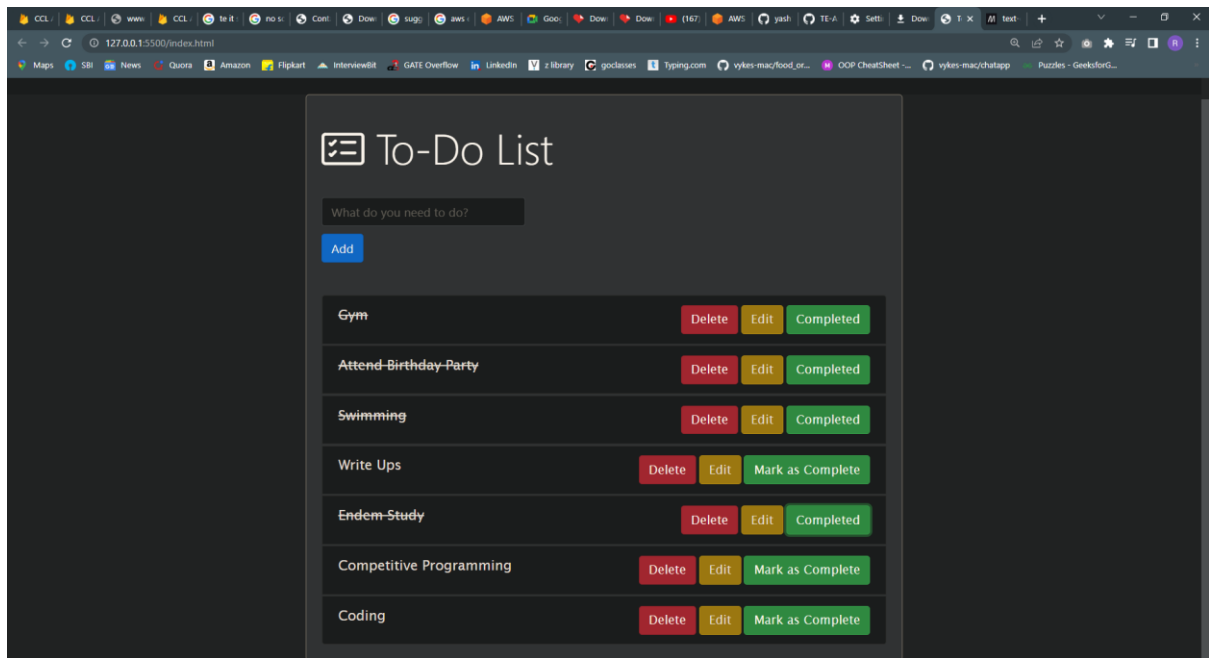
The image displays two screenshots related to an AWS Amplify project named 'To-Do-List'.

The top screenshot is the AWS Amplify console interface. It shows the 'To-Do-List' app details, including the 'master' branch with 'Continuous deploys set up (Edit)'. A deployment pipeline is visible with stages: Provision, Build, Deploy, and Verify, all marked as successful. The last deployment was on 4/12/2022 at 6:40:42 AM. The console also shows the 'Hosting environments' and 'Backend environments' tabs.

The bottom screenshot is a web browser showing the 'To-Do List' application running on a local server (127.0.0.1:5500). The application has a dark theme and a list of tasks:

- Gym
- Attend Birthday Party
- Swimming
- Write Ups
- Endem Study
- Competitive Programming
- Coding

Each task has three buttons: 'Delete' (red), 'Edit' (yellow), and 'Mark as Complete' (green). The application also features an 'Add' button and a search bar labeled 'What do you need to do?'.



Conclusion:

