



ISAACK IFRA ABDI

APT1030

669732

Procedural programming

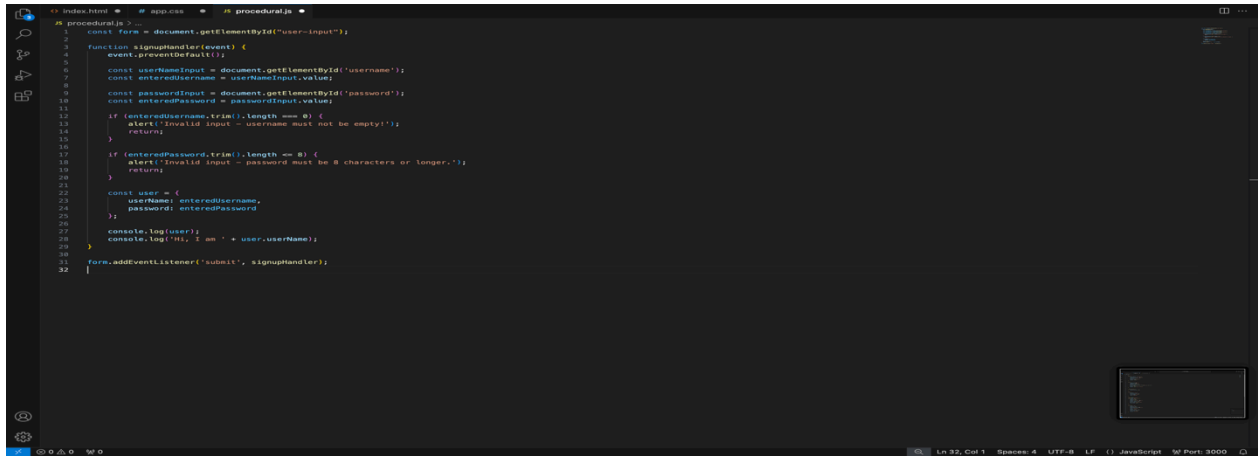
Procedural HTML

```
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>Programming Paradigms</title>
7   <link rel="stylesheet" href="app.css">
8 </head>
9 <body>
10   <form id="user-input">
11     <div class="form-control">
12       <h1> login Details </Details></H1>
13       <label form="username">Username</label>
14       <input type="text" id="username" />
15     </div>
16     <div class="form-control">
17       <label form="password">Password</label>
18       <input type="password" id="password">
19     </div>
20     <button type="submit">Create User</button>
21   </form>
22   <script src="procedural.js"></script>
23 </body>
24 </html>
```

Procedural CSS

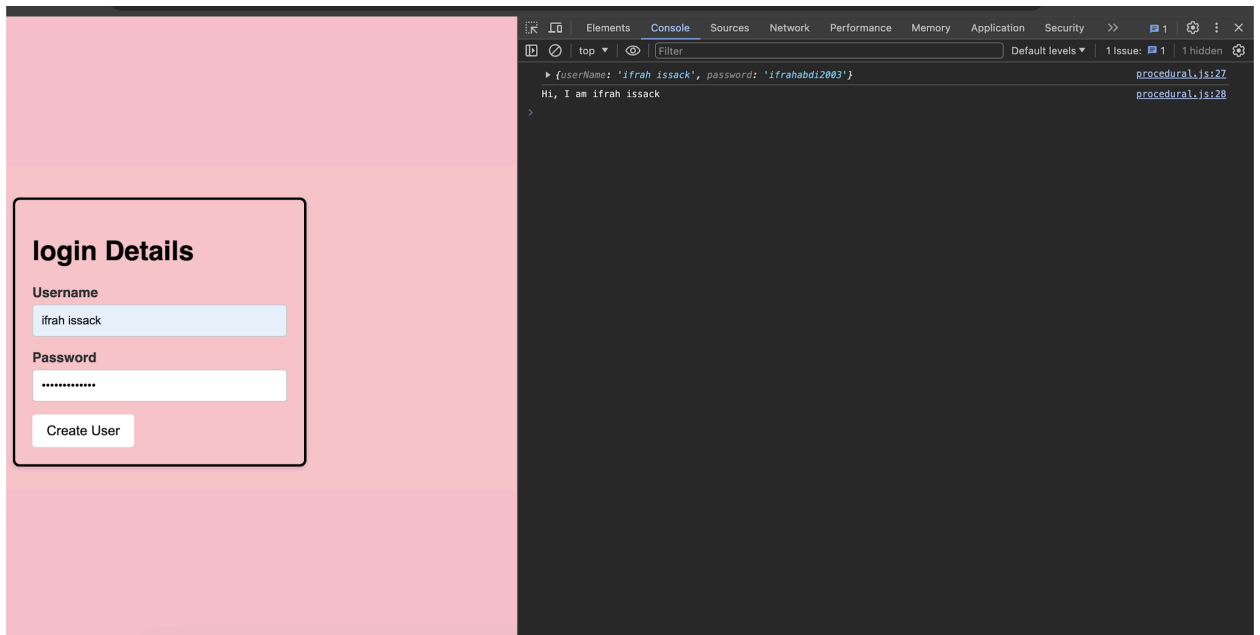
```
1 body {
2   font-family: sans-serif;
3   background-color: #pink;
4   display: flex;
5   align-items: center;
6   height: 100vh;
7 }
8
9
10 form {
11   background: #pink;
12   padding: 20px;
13   border-radius: 8px;
14   box-shadow: 0 2px 4px #000000;
15   width: 300px;
16   border: 3px solid black;
17 }
18
19 .form-control {
20   margin-bottom: 15px;
21 }
22
23 label {
24   display: block;
25   margin-bottom: 5px;
26   font-weight: bold;
27   color: #333;
28 }
29
30 input[type="text"],
31 input[type="password"] {
32   width: 100%;
33   padding: 10px;
34   border: 1px solid #ccc;
35   border-radius: 4px;
36   box-sizing: border-box;
37   font-size: 14px;
38 }
39
40 button {
41   width: 40%;
42   padding: 10px;
43   background-color: white;
44   color: black;
45   border: none;
46   border-radius: 4px;
47   font-size: 16px;
48   cursor: pointer;
49 }
50
51
```

Procedural Java script



```
1 const form = document.getElementById("user-input");
2
3 function signupHandler(event) {
4   event.preventDefault();
5
6   const userNameInput = document.getElementById("username");
7   const enteredUsername = userNameInput.value;
8
9   const passwordInput = document.getElementById("password");
10  const enteredPassword = passwordInput.value;
11
12  if (enteredUsername.trim().length === 0) {
13    alert("Invalid input - username must not be empty!");
14    return;
15  }
16
17  if (enteredPassword.trim().length < 8) {
18    alert("Invalid input - password must be 8 characters or longer.");
19    return;
20  }
21
22  const user = {
23    username: enteredUsername,
24    password: enteredPassword
25  };
26
27  console.log(user);
28  console.log("Hi, I am " + user.userName);
29
30  form.addEventListener("submit", signupHandler);
31
32 }
```

Procedural Console



Object oriented programming

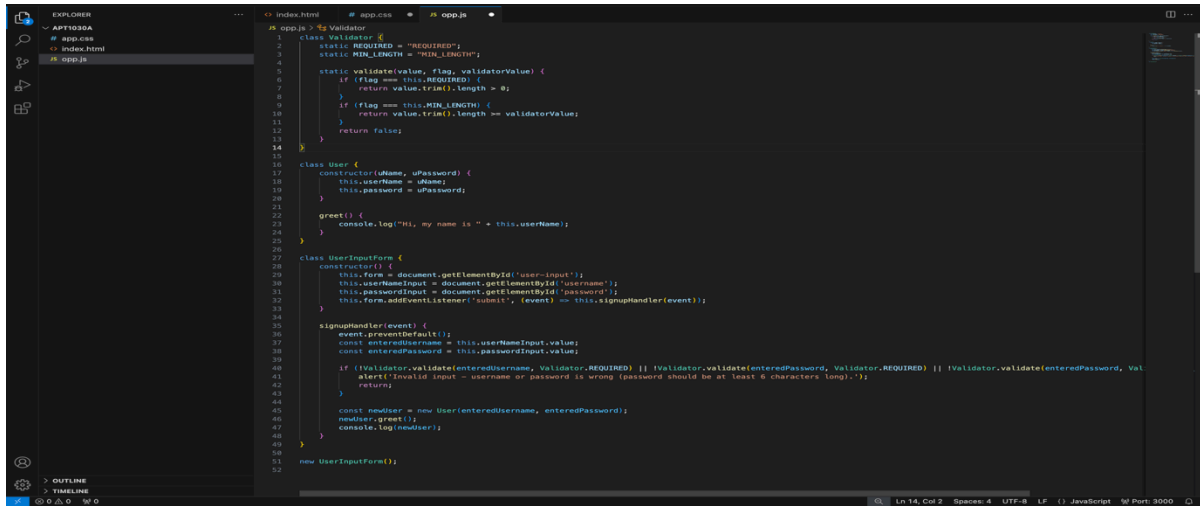
OPP – HTML

```
index.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>Programming Paradigms</title>
7    <link rel="stylesheet" href="app.css">
8  </head>
9  <body>
10   <form id="user-input">
11     <div class="form-control">
12       <h1> login Details </Details></h1>
13       <label for="username">Username</label>
14       <input type="text" id="username" />
15     </div>
16     <div class="form-control">
17       <label for="password">Password</label>
18       <input type="password" id="password">
19     </div>
20     <button type="submit">Create User</button>
21   </form>
22   <script src="procedural.js"></script>
23 </body>
24 </html>
25
26
```

OPP – CSS

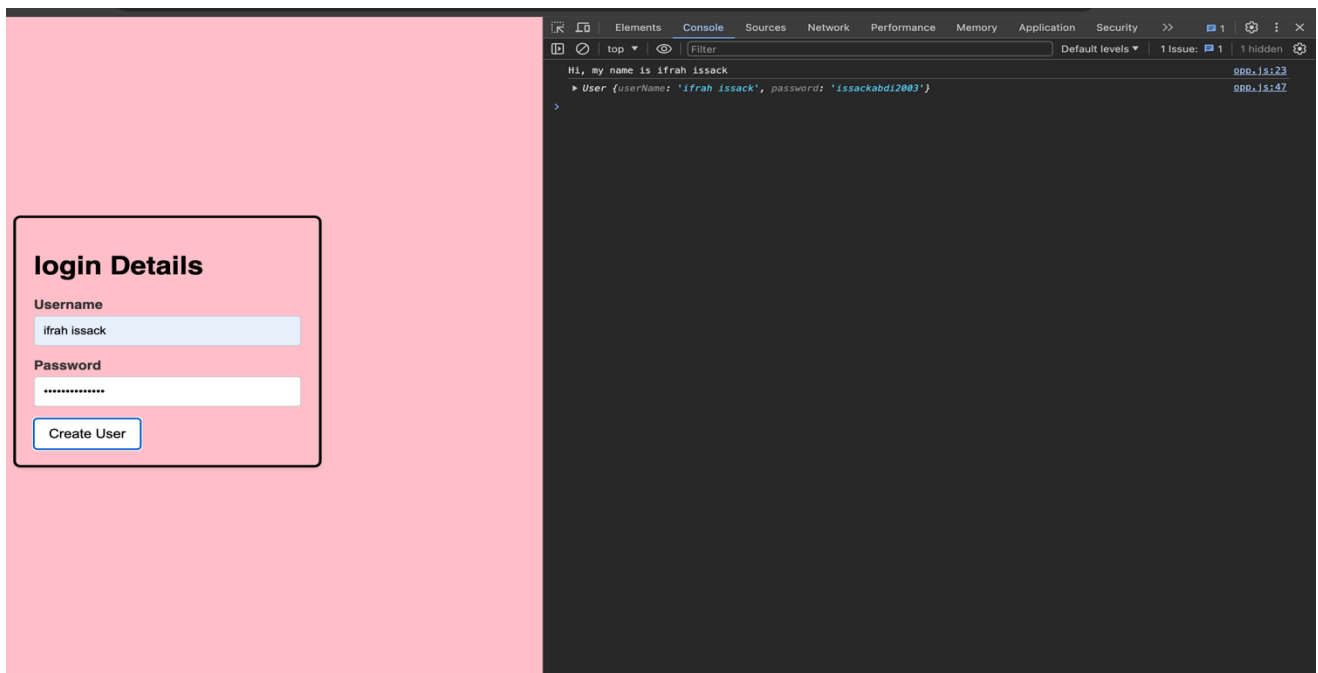
```
1
2 body {
3   font-family: sans-serif;
4   background-color: #pink;
5   display: flex;
6   align-items: center;
7   height: 100vh;
8 }
9
10 form {
11   background: #pink;
12   padding: 20px;
13   border-radius: 8px;
14   box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
15   width: 300px;
16   border: 3px solid #black
17 }
18
19 .form-control {
20   margin-bottom: 15px;
21 }
22
23 label {
24   display: block;
25   margin-bottom: 5px;
26   font-weight: bold;
27   color: #333;
28 }
29
30 input[type="text"],
31 input[type="password"] {
32   width: 100%;
33   padding: 10px;
34   border: 1px solid #ccc;
35   border-radius: 4px;
36   box-sizing: border-box;
37   font-size: 14px;
38 }
39
40 button {
41   width: 40%;
42   padding: 10px;
43   background-color: #white;
44   color: #black;
45   border: none;
46   border-radius: 4px;
47   font-size: 16px;
48   cursor: pointer;
49 }
50
```

OPP-Java script



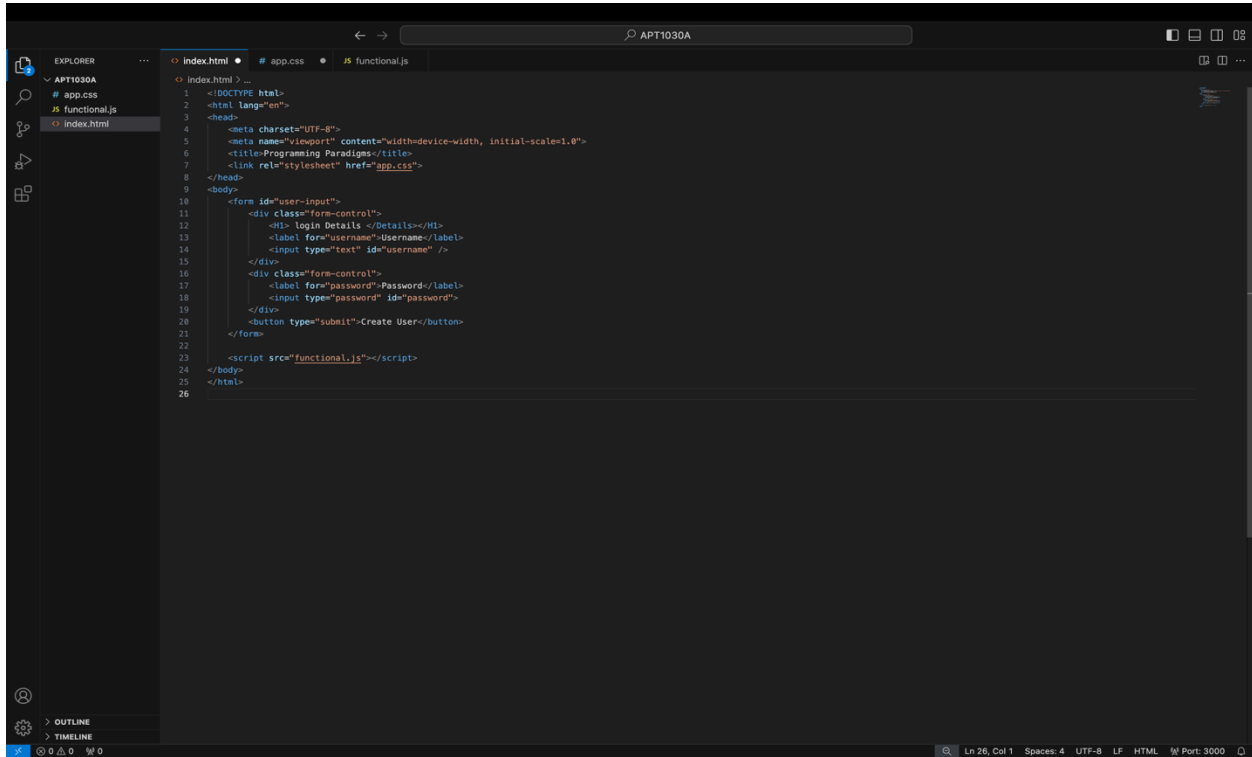
```
1  # app.js
2  class Validator {
3    static REQUIRED = "REQUIRED";
4    static MIN_LENGTH = "MIN_LENGTH";
5
6    static validate(value, flag, validatorValue) {
7      if (flag === this.REQUIRED) {
8        return value.trim().length > 0;
9      }
10     if (flag === this.MIN_LENGTH) {
11       return value.trim().length >= validatorValue;
12     }
13     return false;
14   }
15
16   class User {
17     constructor(userName, uPassword) {
18       this.userName = userName;
19       this.password = uPassword;
20     }
21
22     greet() {
23       console.log("Hi, my name is " + this.userName);
24     }
25   }
26
27   class UserInputForm {
28     constructor() {
29       this.form = document.getElementById("user-input");
30       this.userNameInput = document.getElementById("username");
31       this.passwordInput = document.getElementById("password");
32       this.form.addEventListener("submit", (event) => this.signUpHandler(event));
33     }
34
35     signUpHandler(event) {
36       event.preventDefault();
37       const enteredUsername = this.userNameInput.value;
38       const enteredPassword = this.passwordInput.value;
39
40       if (!Validator.validate(enteredUsername, Validator.REQUIRED) || !Validator.validate(enteredPassword, Validator.REQUIRED) || !Validator.validate(enteredPassword, Validator.MIN_LENGTH)) {
41         alert("Invalid input - username or password is wrong (password should be at least 8 characters long).");
42         return;
43       }
44
45       const newUser = new User(enteredUsername, enteredPassword);
46       newUser.greet();
47       console.log(newUser);
48     }
49
50     new UserInputForm();
51   }
52 }
```

OPP -Console



Functional programming language

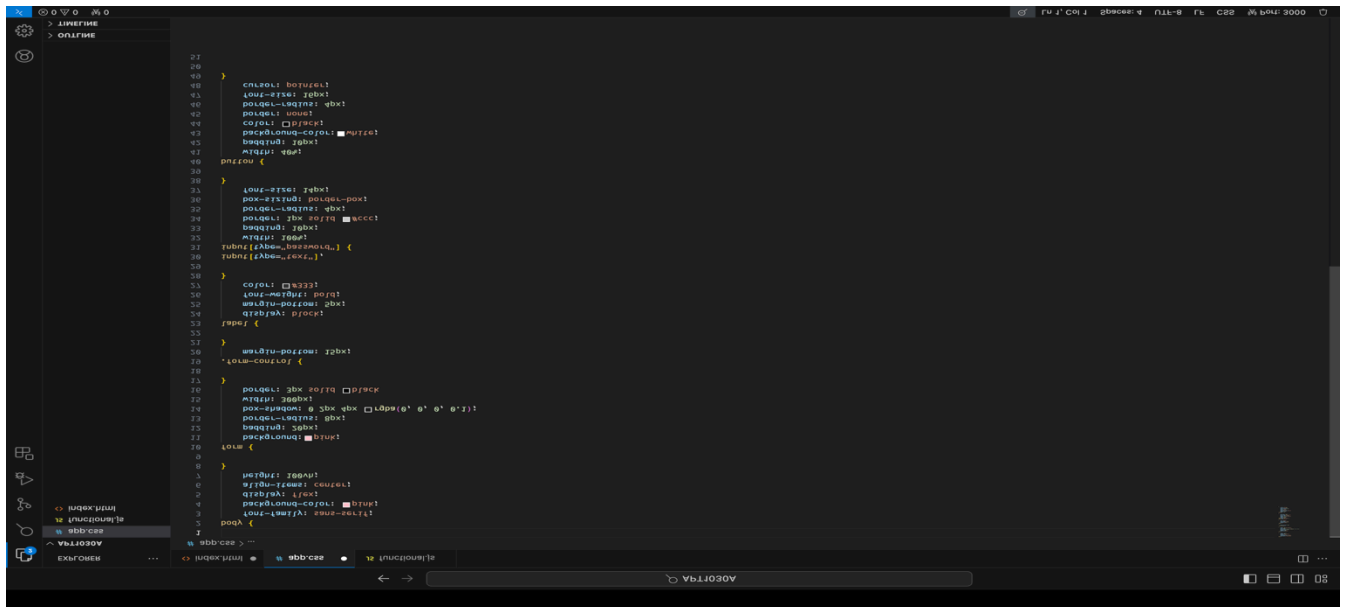
HTML



The screenshot shows a code editor with a dark theme. The Explorer panel on the left shows a project named 'APT1030A' with files 'app.css', 'functional.js', and 'index.html'. The main editor area displays the content of 'index.html'. The code is an HTML document with a login form. It includes a meta charset of UTF-8, a viewport meta tag, and a link to 'app.css'. The form has two input fields for 'username' and 'password', each with a label and a 'form-control' class. A 'Create User' button is at the bottom of the form. A script tag at the bottom of the body points to 'functional.js'.

```
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>Programming Paradigms</title>
7   <link rel="stylesheet" href="app.css">
8 </head>
9 <body>
10   <form id="user-input">
11     <div class="form-control">
12       <h1> login Details </Details></h1>
13       <label for="username">Username</label>
14       <input type="text" id="username" />
15     </div>
16     <div class="form-control">
17       <label for="password">Password</label>
18       <input type="password" id="password">
19     </div>
20     <button type="submit">Create User</button>
21   </form>
22
23   <script src="functional.js"></script>
24 </body>
25 </html>
26
```

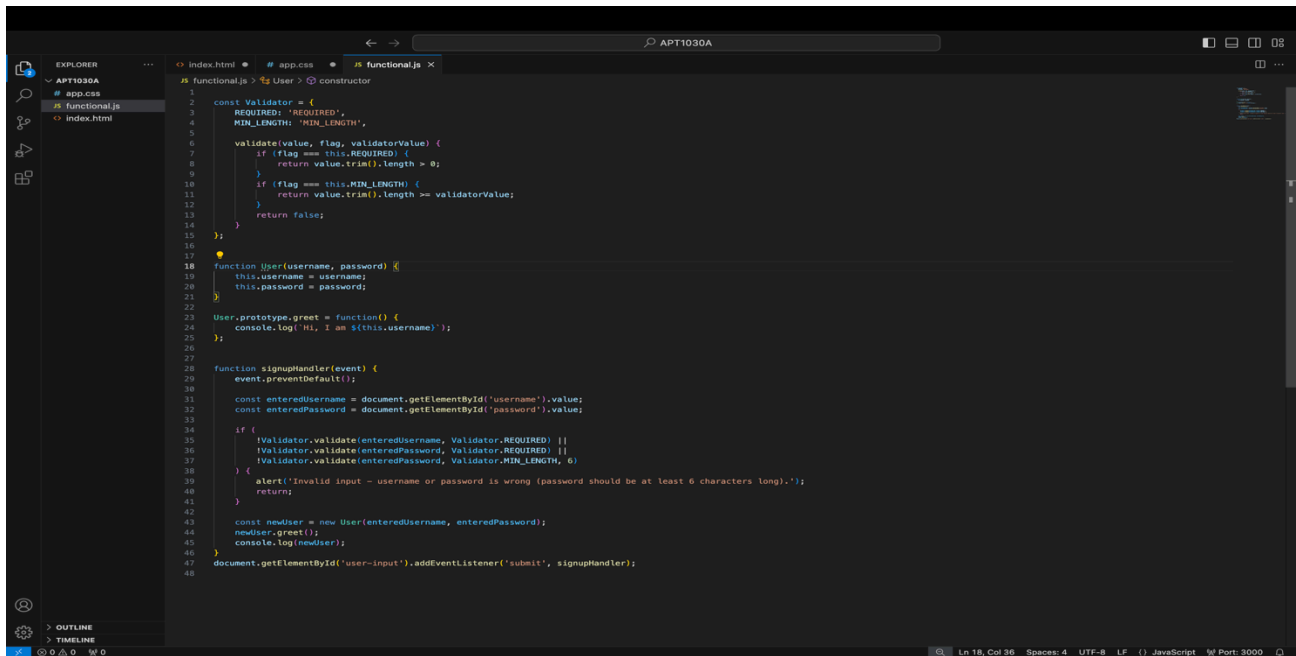
CSS



The screenshot shows a code editor with a dark theme. The Explorer panel on the left shows a project named 'APT1030A' with files 'app.css', 'functional.js', and 'index.html'. The main editor area displays the content of 'app.css'. The code defines styles for the login form, including a 'form-control' class for the username and password inputs, and a 'login-form' class for the entire form. The styles include background colors, text colors, font sizes, and padding. The 'login-form' class has a background color of #f0f0f0, a padding of 10px, and a border of 1px solid #ccc. The 'form-control' class has a background color of #fff, a padding of 5px, and a border of 1px solid #ccc. The 'login-form' class also has a text color of #333 and a font size of 1.2em. The 'form-control' class has a text color of #333 and a font size of 1.2em. The 'login-form' class also has a text color of #333 and a font size of 1.2em. The 'form-control' class has a text color of #333 and a font size of 1.2em.

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Java script



```
1  const Validator = {
2    REQUIRED: 'REQUIRED',
3    MIN_LENGTH: 'MIN_LENGTH',
4
5    validate(value, flag, validatorValue) {
6      if (flag === this.REQUIRED) {
7        return value.trim().length > 0;
8      }
9      if (flag === this.MIN_LENGTH) {
10       return value.trim().length >= validatorValue;
11     }
12     return false;
13   }
14 };
15
16
17
18 function User(username, password) {
19   this.username = username;
20   this.password = password;
21 }
22
23 User.prototype.greet = function() {
24   console.log(`Hi, I am ${this.username}`);
25 };
26
27
28 function signUpHandler(event) {
29   event.preventDefault();
30
31   const enteredUsername = document.getElementById('username').value;
32   const enteredPassword = document.getElementById('password').value;
33
34   if (
35     !Validator.validate(enteredUsername, Validator.REQUIRED) ||
36     !Validator.validate(enteredPassword, Validator.REQUIRED) ||
37     !Validator.validate(enteredPassword, Validator.MIN_LENGTH, 6)
38   ) {
39     alert('Invalid input - username or password is wrong (password should be at least 6 characters long).');
40     return;
41   }
42
43   const newUser = new User(enteredUsername, enteredPassword);
44   newUser.greet();
45   console.log(newUser);
46
47   document.getElementById('user-input').addEventListener('submit', signUpHandler);
48 }
```

Console output

