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COMPLETED A PROJECT NAME AS Phase- 5

Technology Project Name

**IBM-FE-Login Authentication
System**

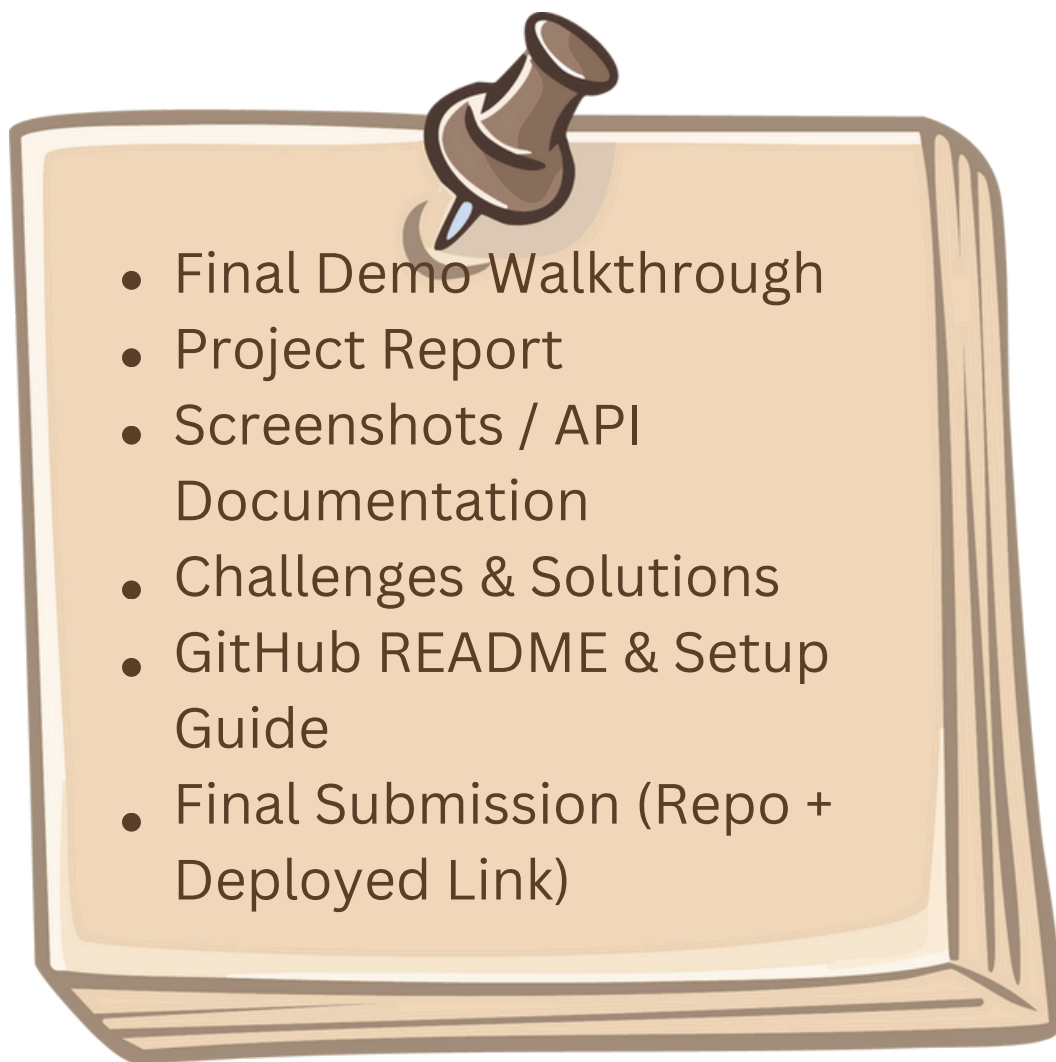
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IBM-FE-Login Authentication System

Phase 5 — Project Demonstration & Documentation(Deadline - Week 10)





IBM-FE-Login Authentication System

Phase 5 — Project Demonstration & Documentation

1. Final Demo Walkthrough

Objective:

To demonstrate the complete working of the Login Authentication System, developed using front-end technologies.

Demo Steps:

1. Open index.html in any modern web browser.
2. Display the login form with the following elements:
 - Email input
 - Password input
 - “Remember Me” checkbox
 - Social-login buttons (Google / GitHub placeholders)
3. Test client-side validation:
 - Invalid email → error message displayed
 - Password fewer than 8 characters → error shown
4. Demonstrate password visibility toggle.
5. Check the Remember Me option functionality.
6. Click Sign in:
 - Valid input → success message displayed
 - Invalid input → error feedback
7. Show placeholder redirects for social login buttons.
8. End the demo with a confirmation or success alert.



IBM-FE-Login Authentication System

2. Project Report

- ***Project Overview:***

The Login Authentication System is a secure, responsive login interface for web applications.

It provides intuitive validation and visual feedback to ensure user-friendly authentication.

- ***Key Features***

Email / Password login

Client-side validation with error handling

Password visibility toggle

“Remember Me” option

Social login buttons (Google & GitHub placeholders)

Fully responsive layout for desktop & mobile

- ***Technologies Used:***

°HTML5 – structure

°CSS3 – styling, Flexbox, media queries

°JavaScript (ES6+) – form validation & interactivity

- ***Project Flow:***

1. User opens the login page.
2. Inputs are validated on the client side.
3. Successful login shows a success message.
4. Errors are displayed dynamically.
5. Optional social login buttons redirect to placeholder pages.

IBM-FE-Login Authentication System

3. Screenshots / API Documentation

The screenshot shows a web browser window with the address bar displaying 'st1798561.github.io/lo'. The page has a dark blue background. At the top, there is a header with a blue square icon containing a white triangle, followed by the text 'Sign in to Your App' and 'Secure access to your workspace'. Below this, there are two input fields: 'Email' with the placeholder 'you@company.com' and 'Password' with the placeholder 'Enter your password'. The 'Email' field has a red error message 'Email is required.' below it. The 'Password' field has a red error message 'Password is required.' below it and a 'Show' button to its right. There is a 'Remember me' checkbox below the password field. A large blue 'Sign in' button is centered below the form. Below the button, there is a section titled 'Or continue with' with two buttons: 'Google' and 'GitHub'. At the bottom, there is a line of text: 'By continuing you agree to our [Terms](#) and [Privacy Policy](#)'.

Sign in to Your App
Secure access to your workspace

Email
you@company.com
Email is required.

Password
Enter your password
Show
Password is required.

☐ Remember me

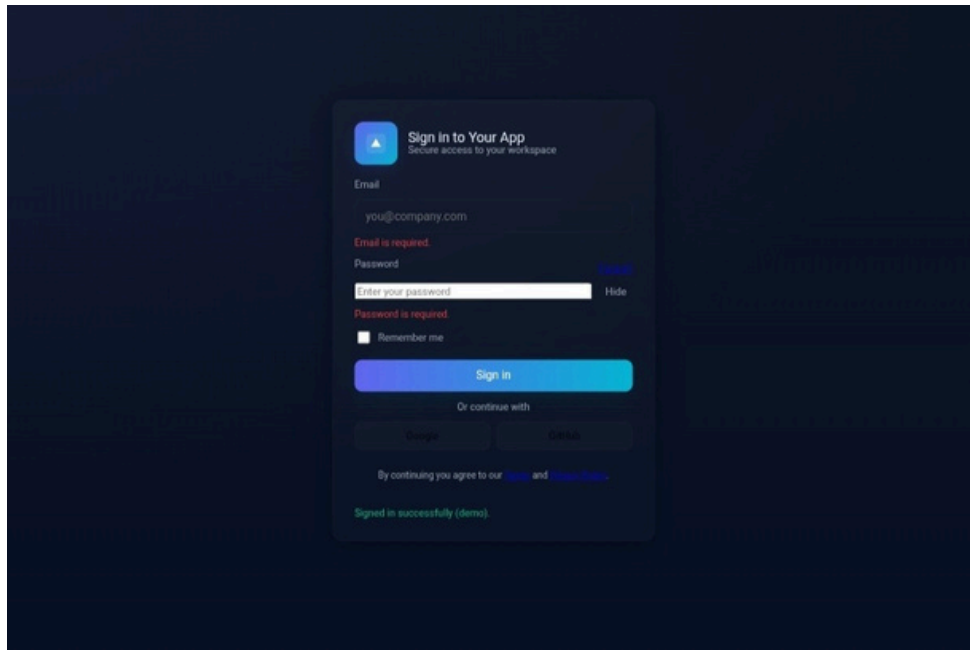
Sign in

Or continue with

Google GitHub

By continuing you agree to our [Terms](#) and [Privacy Policy](#).

IBM-FE-Login Authentication System



Sign in to Your App
Secure access to your workspace

Email
you@company.com
Email is required.

Password
Enter your password Forgot Password
Password is required. Hide

☐ Remember me

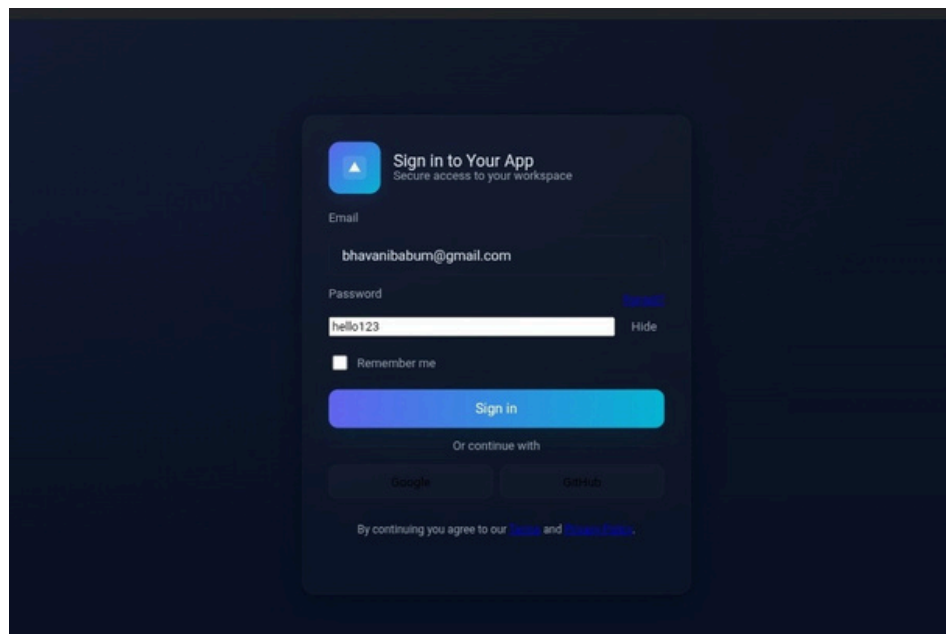
Sign in

Or continue with

[Google](#) [Github](#)

By continuing you agree to our [Terms](#) and [Privacy Policy](#).

Signed in successfully (demo).



Sign in to Your App
Secure access to your workspace

Email
bhavanibabum@gmail.com

Password
hello123 Forgot Password Hide

☐ Remember me

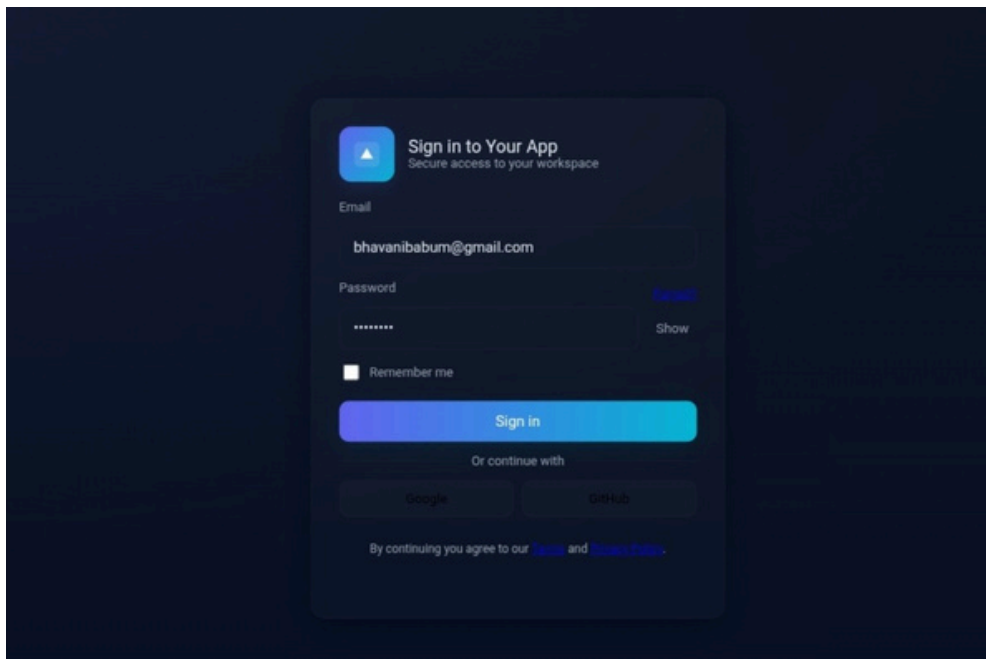
Sign in

Or continue with

[Google](#) [Github](#)

By continuing you agree to our [Terms](#) and [Privacy Policy](#).

IBM-FE-Login Authentication System



The screenshot shows a dark-themed login interface. At the top, a blue header bar contains the text "Sign in to Your App" and "Secure access to your workspace". Below this, the "Email" field is populated with "bhavanibabum@gmail.com". The "Password" field is masked with "*****" and has a "Show" link to its right. A "Remember me" checkbox is checked. A large blue "Sign in" button is centered below the form. Underneath the button, it says "Or continue with" followed by "Google" and "GitHub" buttons. At the bottom, a small line of text reads "By continuing you agree to our [Terms](#) and [Privacy Policy](#)".

The page at "http://localhost" says:
Login Successfully

OK



IBM-FE-Login Authentication System

Program :

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport"
content="width=device-width,
initial-scale=1" />
  <title>Login — Your App</title>
  <meta name="description"
content="Secure sign in to Your
App" />
```




IBM-FE-Login Authentication System

```
<style>
:root{
  --bg:#0f1724;
  --card:#0b1220;
  --muted:#9aa6b2;
  --accent:#6366f1;
  --accent-2:#06b6d4;
  --glass: rgba(255,255,255,0.04);
  --success:#10b981;
  --danger:#ef4444;
  --radius:14px;
  --max-width:420px;
  --shadow: 0 6px 30px rgba(2,6,23,0.6);
  font-family: Inter, ui-sans-serif, system-ui, -
apple-system, "Segoe UI", Roboto, "Helvetica
Neue", Arial;
  }*{box-sizing:border-box}
html,body{height:100%}
```

A graphic featuring a light brown rectangular box with a dark brown border. To the left of the box is a solid dark brown circle. The text "IBM-Login Authentication System" is centered within the box in a dark brown, sans-serif font.

IBM-Login Authentication System

```
body{
  margin:0;
  background: radial-gradient(1200px 600px at
    10% 10%, rgba(99,102,241,0.08), transparent),
    linear-gradient(180deg, var(--bg),
    #071026 120%);
  color:#e6eef6;
  -webkit-font-smoothing:antialiased;
  -moz-osx-font-smoothing:grayscale;
  display:flex;
  align-items:center;
  justify-content:center;
  padding:32px;
}.container{ width:100%; max-width:var(--max-
width); background: linear-gradient(180deg,
rgba(255,255,255,0.02), rgba(255,255,255,0.01));
border-radius:var(--radius); box-shadow:var(--
shadow); padding:28px; border:1px solid
rgba(255,255,255,0.04); backdrop-filter:
blur(6px); }
```

IBM-FE-Login Authentication System

```
.header{display:flex;gap:14px;align-items:center;margin-bottom:18px;}
.logo{width:56px;height:56px;border-radius:12px;display:grid;place-items:center;background:linear-gradient(135deg,var(--accent),var(--accent-2));flex:0 0 56px;box-shadow:0 6px 18px rgba(99,102,241,0.12);} .logo
svg{width:34px;height:34px;opacity:0.98} .brand{line-height:1} .brand h1{font-size:18px;margin:0;font-weight:600} .brand p{margin:0;font-size:13px;color:var(--muted)}
form{display:grid;gap:12px}
label{font-size:13px;color:var(--muted);display:block;margin-bottom:6px}
.field{display:flex;flex-direction:column;gap:6px}
input[type="email"], input[type="password"]
{width:100%;padding:12px 14px;border-radius:10px;border:1px solid
rgba(255,255,255,0.04);background:transparent;color:
inherit;outline:none;font-size:15px;transition:box-
shadow .12s, border-color .12s;} input:focus{box-
shadow:0 6px 18px rgba(99,102,241,0.06);border-
color:rgba(99,102,241,0.18)}
```

A graphic featuring a dark brown circle on the left, a light tan rectangular box in the center containing the title, and a dark brown rectangular bar on the right. The entire graphic is enclosed in a thin blue border.

IBM-FE-Login Authentication System

```
.password-row{display:flex;align-items:center;gap:10px} .pw-toggle{background:transparent;border:none;color:var(--muted);cursor:pointer;padding:8px;border-radius:8px} .muted-line{display:flex;justify-content:space-between;align-items:center;font-size:13px;color:var(--muted);} .row{display:flex;gap:12px;align-items:center} .checkbox{display:flex;gap:8px;align-items:center} .checkbox input{width:16px;height:16px} .btn{width:100%;padding:12px 14px;border-radius:10px;border:0;background:linear-gradient(90deg,var(--accent),var(--accent-2));color:white;font-weight:600;font-size:15px;cursor:pointer;box-shadow:0 8px 28px rgba(6,182,212,0.08);} .btn:active{transform:translateY(1px)} .btn[disabled]{opacity:0.6;cursor:not-allowed}
```



IBM-FE-Login Authentication System

```
.or{display:flex;align-items:center;gap:10px;color:var(--muted);font-size:13px}
.or::before,.or::after{content:'';flex:1;height:1px;background:rgba(255,255,255,0.03);border-radius:2px}
.socials{display:flex;gap:8px} .social-btn{flex:1;padding:10px 8px;border-radius:10px;background:rgba(255,255,255,0.02);border:1px solid rgba(255,255,255,0.03);display:flex;align-items:center;justify-content:center;gap:8px;font-weight:600;cursor:pointer}
.help-links{display:flex;justify-content:center;margin-top:8px;gap:16px;font-size:13px;color:var(--muted)}
.small{font-size:13px;color:var(--muted)}
.legal{margin-top:14px;font-size:12px;color:var(--muted);text-align:center} .error{color:var(--danger);font-size:13px} .success{color:var(--success);font-size:13px}
@media (max-width:420px)
{body{padding:18px}.container{padding:18px}}
</style>
</head>
```

IBM-FE-Login Authentication System

```
<body>
  <main class="container" role="main" aria-
labelledby="login-heading">
    <header class="header">
      <div class="logo" aria-hidden="true">
        <svg viewBox="0 0 64 64" fill="none"
xmlns="http://www.w3.org/2000/svg" aria-
hidden="true">
          <rect x="8" y="8" width="48"
height="48" rx="10" fill="white"
opacity="0.12"/>
          <path d="M20 40 L32 20 L44 40 Z"
fill="white" opacity="0.98"/>
        </svg>
      </div>
      <div class="brand">
        <h1 id="login-heading">Sign in to Your
App</h1>
        <p>Secure access to your
workspace</p>
      </div>
```



IBM-FE-Login Authentication System

```
</header><form id="loginForm" novalidate
method="post" action="/login">
  <div class="field">
    <label for="email">Email</label>
    <input id="email" name="email" type="email"
inputmode="email" autocomplete="username"
required aria-required="true"
placeholder="you@company.com">
    <div id="emailError" class="error" aria-live="polite"
style="display:none"></div>
  </div> <div class="field">
    <div class="row" style="justify-content:space-
between;align-items:flex-end">
      <div style="flex:1">
        <label for="password">Password</label>
      </div>
      <div class="small"><a href="#"
id="forgotLink">Forgot?</a></div>
    </div><div class="password-row">
      <input id="password" name="password"
type="password" autocomplete="current-password"
required aria-required="true" placeholder="Enter
your password" style="flex:1">
```



IBM-FE-Login Authentication System

```
<button type="button" class="pw-toggle" id="togglePw"
aria-pressed="false" aria-label="Show
password">Show</button>
</div>
<div id="pwError" class="error" aria-live="polite"
style="display:none"></div>
</div> <div class="row" style="justify-content:space-
between">
  <label class="checkbox"><input type="checkbox"
id="remember" name="remember"><span
class="small">Remember me</span></label>
  <div></div>
</div> <div>
  <button type="submit" class="btn" id="submitBtn">Sign
in</button>
</div> <div class="or">Or continue with</div> <div
class="socials" role="group" aria-label="Social sign-in
options">
  <button type="button" class="social-btn"
id="googleBtn">Google</button>
  <button type="button" class="social-btn"
id="githubBtn">GitHub</button>
</div> <p class="legal">By continuing you agree to our <a
href="#">Terms</a> and <a href="#">Privacy Policy</a>.
</p> <div id="statusMsg" aria-live="polite" style="margin-
top:10px"></div>
</form> </main>
```




IBM-Login Authentication System

```
<script>
  (function(){
    const form =
document.getElementById('loginForm');
    const email = document.getElementById('email');
    const password =
document.getElementById('password');
    const toggle =
document.getElementById('togglePw');
    const emailError =
document.getElementById('emailError');
    const pwError =
document.getElementById('pwError');
    const status =
document.getElementById('statusMsg');
    const submitBtn =
document.getElementById('submitBtn');// Toggle
password visibility
toggle.addEventListener('click', ()=>{
const isShown = password.type === 'text';
  password.type = isShown ? 'password' : 'text';
  toggle.textContent = isShown ? 'Show' : 'Hide';
  toggle.setAttribute('aria-pressed', String(!isShown));
  // keep the cursor at the end
```



IBM-FE-Login Authentication System

```
password.focus();
const len = password.value.length;
password.setSelectionRange(len, len);
});
function validateEmail(v){
  return /^[^\s@]+\@[^\s@]+\.[^\s@]+$/.test(v);
}
function validatePassword(v){
  return v.length >= 8;
}
function updateErrors(){
  const emailVal = email.value.trim();
  const pwVal = password.value;
  let ok = true;

  if(emailVal === ''){
    emailError.style.display = 'block';
    emailError.textContent = 'Email is required.';
    ok = false;
  } else if(!validateEmail(emailVal)){
    emailError.style.display = 'block';
    emailError.textContent = 'Please enter a valid email address.';
    ok = false;
  } else {
    emailError.style.display = 'none';
    emailError.textContent = '';
  }
}
```



IBM-FE-Login Authentication System

```
if(pwVal === ''){
    pwError.style.display = 'block';
    pwError.textContent = 'Password is required.';
    ok = false;
} else if(!validatePassword(pwVal)){
    pwError.style.display = 'block';
    pwError.textContent = 'Password must be at least
8 characters.';
    ok = false;
} else {
    pwError.style.display = 'none';
    pwError.textContent = '';
}
submitBtn.disabled = !ok;
return ok;
}
// Live validation
email.addEventListener('input', updateErrors);
password.addEventListener('input', updateErrors);
// Prevent native constraint UI and use our own
```

The title card features a light beige background with a dark brown border. On the left side, there is a dark brown circle. The text "IBM-FE-Login Authentication System" is centered in a bold, dark brown font.

IBM-FE-Login Authentication System

```
email.addEventListener('invalid', (ev)=>{
  ev.preventDefault();
  updateErrors();
});
password.addEventListener('invalid', (ev)=>{
  ev.preventDefault();
  updateErrors();
});
// Initial state
updateErrors();
form.addEventListener('submit', async (e)=>{
  e.preventDefault();
  status.textContent = '';
  // run validation one more time
  if(!updateErrors()) return;
  submitBtn.disabled = true;
  submitBtn.textContent = 'Signing in...';
```



IBM-FE-Login Authentication System

```
try{
  const payload = {email: email.value.trim(), password:
password.value, remember:
document.getElementById('remember').checked};
  // demo delay to simulate network
  await new Promise(r=>setTimeout(r,800));
  // demo: always succeed (replace with real auth)
  const success = true;
  if(success){
    // Show inline success message
    status.textContent = "";
    const msg = document.createElement('div');
    msg.className='success'; msg.textContent='Signed in
successfully (demo).';
    status.appendChild(msg);
    // Show an alert as you requested
    alert('Login Successfully');
    // Clear sensitive fields and reset form
    form.reset();
    updateErrors(); // update UI and disable submit until
valid input
    // move focus back to email for next interaction
    email.focus();
  } else {
    throw new Error('Invalid credentials');
  }
}
```



IBM-FE-Login Authentication System

```
}catch(err){
  status.textContent = '';
  const msg = document.createElement('div');
  msg.className='error'; msg.textContent =
err.message || 'Sign-in failed. Try again.';
  status.appendChild(msg);
}finally{
  submitBtn.disabled = false;
submitBtn.textContent = 'Sign in';
}
});

document.getElementById('googleBtn').addEventListener('click', ()=>{window.location.href =
'/auth/google'});

document.getElementById('githubBtn').addEventListener('click', ()=>{window.location.href =
'/auth/github'});
// Accessibility: allow Enter key on toggle to work
like click
```

A graphic featuring a light brown rectangular box with a dark brown border. To the left of the box is a solid dark brown circle. The text "IBM-Login Authentication System" is centered within the box in a dark brown, sans-serif font. The word "System" is on a separate line below "Authentication".

IBM-Login Authentication System

```
toggle.addEventListener('keydown',  
(ev)=>{ if(ev.key === 'Enter' || ev.key === '  
' ) { ev.preventDefault(); toggle.click(); }  
});  
})();  
</script>  
</body>  
</html>
```

IBM-FE-Login Authentication System

API Documentation (Demo):

- *Login Endpoint:* POST /login

```
{  
  "email":  
    "user@example.com",  
  "password": "string",  
  "remember": true  
}
```

- *Response (Demo):*

```
{  
  "success": true,  
  "message": "Signed in  
successfully"  
}
```


IBM-FE-Login Authentication System

4. Challenges & Solutions

Challenges & Solutions

Challenge	Solution
Email Validation	Implemented JavaScript regular expressions // "(\s@)+@[^\s@]+\.(\s@)+/" onimgehir ensage
Password Rules	Enforce a minimum of 8 characters with instant validation feedback to ensure secure password
Password Toggle Functionality	Using JavaScript to switch input type between "password" and "text", uses to view or hide their
Responsive Layout	Utilized CSS Flexbox and media queries to make the login form responsive across mobile, tablet
Backend Simulation	Used JavaScript's setTimeout() to mimic a real backend login request and display success or

5. GitHub Repository & Setup Guide

Repository Name: IBM-FE-Login Authentication System

GitHub Link: <https://st1798561.github.io/login.html/>



IBM-FE-Login Authentication System

- ***GitHub Repository***

The complete project code has been uploaded to GitHub for version control and easy accessibility. It includes all HTML, CSS, and JavaScript files used in the Login Authentication System project.

- ***Setup Guide***

To run the project locally:

1. Open your browser and go to your GitHub repository link.
2. Click on “**Code**” → “**Download ZIP**” and extract the folder.
3. Open the extracted folder in **Visual Studio Code** (or any preferred editor).
4. Locate the file named **index.html**.
5. Double-click the file or right-click → **Open with** → **Browser** to view the project.

A title card with a light beige background and a dark brown border. On the left side, there is a dark brown circle. The text "IBM-FE-Login Authentication System" is centered in a dark brown, bold, sans-serif font.

IBM-FE-Login Authentication System

5.Final Submission (Repo + Deployed Link)

Final Submission

The completed project has been successfully uploaded and deployed for evaluation.

GitHub Repository Link:

<https://st1798561.github.io/login.html/>

Deployed Link: Nil

The links provide access to the fully functional Login Authentication System (Front-End) project developed using HTML, CSS, and JavaScript.



IBM-FE-Login Authentication System

Conclusion

As a team, we successfully developed the **Login Authentication System (Front-End)** using **HTML, CSS, and JavaScript** under the guidance of **IBM SkillsBuild** through the **Nan Mudhalvan** program. This project helped us gain strong practical knowledge in **web technologies**, including **form validation, responsive design, and interactive UI development**.

Working together enhanced our teamwork, creativity, and technical problem-solving abilities.

Overall, this experience has greatly improved our understanding of front-end development and its real-world applications.

Acknowledgement

We sincerely thank **IBM SkillsBuild** and **Nan Mudhalvan** for providing us this wonderful learning platform.

We also express our heartfelt gratitude to **our college mentors, faculty coordinators, and team members** for their continuous support and guidance throughout the project journey.

Their encouragement and feedback helped us successfully complete the project within the given timeline.

IBM-FE-Login Authentication System

Final Submission

- **Project Title:** Login Authentication System
- **Technology Used:** HTML, CSS, JavaScript
- **Organization:** IBM SkillsBuild x Nan Mudhalvan
- **GitHub Repository:**
<https://st1798561.github.io/login.html/>

Thank You 🙏

- Submitted by the Project Team
- **Team Members:** 1. Bhavani B
2. Siva Thanu Pillai B S
3. Ganesh Babu A
4. Sathish Kumar S
- **Under:** IBM SkillsBuild — Nan Mudhalvan
Front-End Technology Program

