

Home Activity: Deploy Your First WebApp!

Software Engineering, TRU - Spring 2025

Important: You usually need an email address and to be 13 or older to create a GitHub account. If you're younger, please ask a parent or guardian to help you!

Step 1: Create your GitHub account. Sign up in GitHub. Go to <https://github.com/login> in a web browser. Click on the "Create an account" link. Follow the on-screen instructions (you'll need to choose a username, enter an email, and create a password).

Important Note on Username: The username you choose here is very important! It will become part of your website's address (like yourusername.github.io). So, pick something you like that's easy to remember.

Step 2: After login into GitHub, create a repository. A "repository" (repo) is like a project folder on GitHub. On your GitHub page, click the "+" icon (usually top right) or click on "Create repository."

Step 3 (VERY IMPORTANT!): In the "Repository name" box, type exactly: yourusername.github.io (Replace [yourusername](https://yourusername.github.io) with YOUR actual GitHub username. E.g., if your username is [coder2025](https://coder2025.github.io), type coder2025.github.io). In Repository Settings, make sure "Public" is selected. Check the box for "Add a README file" and click the green "Create repository" button.

Step 4: Create [index.html](#) (Your Main

Page). In your new repository, click "Add file" -> "Create new file." For the filename, type exactly: [index.html](#). In the large text box, copy and paste this code:

```
<html> <head>
  <title>My App!</title>
  <link rel="stylesheet"
        href="style.css">
</head>
<body>
  <h1>Web Programming</h1>
  <p>HTML is <em>awesome!!!</em></p>
  
  <script src="script.js"></script>
</body> </html>
```

Name your file [index.html](#) and click the green "Commit new file" button.

Step 5: Create [style.css](#) (Your Page's Style). Back in your repository's main page, click "Add file" -> "Create new file" again. For the filename, type exactly: [style.css](#). In the large text box, copy and paste the CSS code from your lab activity:

```
body {
  text-align: center;
}
h1 {
  color: red;
}
```

Name your [style.css](#) and click the green "Commit new file" button.

Step 6: Create [script.js](#) (Your Page's Interactivity). Back in your repository's main page, click "Add file" -> "Create new file" again. For the filename, type exactly: [script.js](#). In the large text box, copy and

paste the JavaScript code from your lab activity (the final version that toggles the lightbulb):

```
document.addEventListener('DOMContentLoaded', function() {
  document.querySelector("h1").innerHTML
    = "Click the Lightbulb!";

  function toggleLight() {
    let lightbulb =
      document.querySelector('img');
    if
      (lightbulb.src.endsWith('4d26vbz5'))
    {
      lightbulb.src =
        'https://tinyurl.com/4225uhzk';
    } else {
      lightbulb.src =
        'https://tinyurl.com/4d26vbz5';
    } }

    let imageElement =
      document.querySelector('img');
    if (imageElement) {
      imageElement.addEventListener('click
        ', toggleLight);
    }
  });
```

Name your script.js and click the green "Commit new file" button.

Step 7: GitHub Pages Deployment. GitHub usually takes 2-3 minutes to publish your site for the first time.

Step 8: See your webpage online! Type your website address: <https://yourusername.github.io> (Again, replace yourusername with YOUR GitHub username!) Press Enter. Done! You should see your webapp.

Troubleshooting: If your web app doesn't appear, double-check that you followed all the steps correctly. Make sure your repository is named `yourusername.github.io`. You can also search online for help. (For reference, we have created `web-app-2025.github.io` for this tutorial's source code).

Step 9: What Next? Try changing the heading text in `script.js`, the colors in `style.css`, or adding more HTML elements to `index.html`. Commit your changes to see them live!

Learn more HTML from here: <https://www.w3schools.com/html/>

Good Luck!