

Hands – On Lab

Workshop 5

1. Create a web page that displays a list of GitHub repositories for a given user. The web page should have an input field where the user can enter a GitHub username. When the user clicks a "search" button, the page should use the GitHub API to retrieve the repositories for that user and display them in a list on the page.

([https://api.github.com/users/\\${username}/repos](https://api.github.com/users/${username}/repos))

```
<!DOCTYPE html>
<html>
  <head>
    <title>GitHub Repositories</title>
  </head>
  <body>
    <h1>GitHub Repositories</h1>
    <form>
      <label for="username">Enter a GitHub username:</label>
      <input type="text" id="username" name="username">
      <button type="submit" id="search-btn">Search</button>
    </form>
    <div id="repo-list"></div>

    <script>
      const form = document.querySelector('form');
      const searchBtn = document.querySelector('#search-btn');
      const repoList = document.querySelector('#repo-list');

      form.addEventListener('submit', (event) => {
        event.preventDefault();
        const username = document.querySelector('#username').value;
        const apiUrl = `https://api.github.com/users/${username}/repos`;
        fetch(apiUrl)
          .then((response) => response.json())
          .then((data) => {
            repoList.innerHTML = '';
            data.forEach((repo) => {
              const li = document.createElement('li');
              li.textContent = repo.name;
              repoList.appendChild(li);
            });
          })
          .catch((error) => console.error(error));
      });
    </script>
  </body>
</html>
```

```
</script>
</body>
</html>
```

GitHub Repositories

Enter a GitHub username:



- Introductory-Programming
- ISA
- Web-Technologies
- Website

2. create a web application that displays information about a specific movie. You can use the OMDb API to retrieve the movie data in JSON format. Create a JavaScript function that uses async/await to retrieve the movie data for a given title and displays it on the page

([https://www.omdbapi.com/?t=\\${title}&apikey=\\${apiKey}](https://www.omdbapi.com/?t=${title}&apikey=${apiKey}))

```
<!DOCTYPE html>
<html>
  <head>
    <title>Movie Information App</title>
  </head>
  <body>
    <div id="app">
      <h1>Movie Information App</h1>
      <input type="text" id="movieTitle" placeholder="Enter a movie title">
      <button onclick="getMovieData()">Get Movie Data</button>
      <div id="movieData"></div>
    </div>

    <script>
      const apiKey = 'b4cdfba7';
      const apiUrl = `http://www.omdbapi.com/?apikey=${apiKey}&`;

      async function getMovieData() {
        const movieTitle = document.getElementById('movieTitle').value;
```

```
if (!movieTitle) {
  alert('Please enter a movie title');
  return;
}

try {
  const response = await fetch(`${apiUrl}t=${movieTitle}`);
  const movieData = await response.json();

  if (movieData.Response === 'False') {
    alert(movieData.Error);
    return;
  }

  const movieDataHtml = `
    <h2>Title=${movieData.Title}</h2>
    <h2>IMDB=${movieData.imdbRating}</h2>
  `;

  document.getElementById('movieData').innerHTML = movieDataHtml;
} catch (error) {
  alert('Error retrieving movie data. Please try again.');
```

```
  console.error(error);
}
}
</script>
</body>
</html>
```

Movie Information App

Title=Inception

IMDB=8.8