App.js

```
const express = require("express");
const app = express();
const path = require("path");
const mysql = require("mysql2")
const bodyParser = require("body-parser");

const db =  mysql.createConnection({
    host: 'localhost',
    user: 'root',
     password: '440622',
  database: 'mmeme'

  });

  db.connect((err) => {
    if (err) {
      console.error('Error connecting to the database:', err);
      return;
    }
    console.log('Connected to the MySQL database');
  });

  app.get("/", (req, res) => {
    res.sendFile(path.join(__dirname, "public", "index.html"));
  });


  app.use(bodyParser.urlencoded({ extended: true }));
app.use(express.static(path.join(__dirname, "public")));


// Server Side Code
app.get("/create-meme", (req, res) => {
  db.query('SELECT * FROM images', (err, results) => {
    if (err) {
      console.error(err);
      res.status(500).send("Internal Server Error");
      return;
    }
    res.send(`
      <!DOCTYPE html>
      <html lang="en">
      <head>
```

```
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Create Meme</title>
    <link rel="stylesheet" href="/styles.css">
    <style>
      body {
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        margin: 0;
        font-family: Arial, sans-serif;
        background-color: #f0f0f0;
      }
      .create-meme-container {
        max-width: 600px;
        padding: 20px;
        background-color: #fff;
        border-radius: 8px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      }
      h1 {
        text-align: center;
      }
      form {
        display: flex;
        flex-direction: column;
      }
      label {
        margin-bottom: 8px;
      }
      select {
        margin-bottom: 16px;
        width: 100%;
        padding: 8px;
        border: 1px solid #ccc;
        border-radius: 4px;
      }
      input[type="text"] {
        margin-bottom: 16px;
        padding: 8px;
        border: 1px solid #ccc;
        border-radius: 4px;
      }
      button {
```

```
    padding: 10px 20px;
    background-color: #4CAF50;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
    font-size: 16px;
  }
  button:hover {
    background-color: #45a049;
  }
  .selected-image-container {
    display: flex;
    flex-direction: column;
    align-items: center;
    margin-top: 20px;
  }
  .selected-image {
    max-width: 100%;
    height: auto;
    max-height: 300px; /* Limit image height */
    border-radius: 8px;
    margin-top: 10px;
  }
  .joke-text {
    text-align: center;
    margin-top: 10px;
    word-wrap: break-word;
  }
  .autocomplete-container {
    position: relative;
  }
  .autocomplete-items {
    position: absolute;
    background-color: white;
    border: 1px solid #ddd;
    max-height: 150px;
    overflow-y: auto;
    z-index: 99;
    width: 100%;
  }
  .autocomplete-item {
    padding: 10px;
    cursor: pointer;
  }
```

```
          .autocomplete-item:hover {
            background-color: #f1f1f1;
          }
        </style>
      </head>
      <body>
        <div class="create-meme-container">
          <h1>Create Meme</h1>
          <form action="/submit-meme" method="post">
            <label for="search">Search or choose an image:</label>
            <div class="autocomplete-container">
              <input type="text" id="search" name="search" placeholder="Enter
meme name..." oninput="handleAutocomplete(this.value)">
              <div id="autocomplete-list" class="autocomplete-items"></div>
            </div>
            <br>
            <label for="image">Choose an image:</label>
            <select name="image" id="image" onchange="showSelectedImage(this)">
              ${results.map(img => `<option value="${img.url}" data-
name="${img.name}" data-width="${img.width}" data-
height="${img.height}">${img.name}</option>`).join('')}
            </select>
            <br>
            <label for="joke">Enter joke text:</label>
            <input type="text" id="joke" name="joke" required>
            <br>
            <button type="submit">Create Meme</button>
          </form>
          <div class="selected-image-container">
            <p id="selected-image-name"></p>
            <img src="" alt="Selected Image" class="selected-image" id="selected-
image">
            <p class="joke-text" id="joke-text"></p>
          </div>
        </div>
        <script>
          function showSelectedImage(select) {
            const selectedOption = select.options[select.selectedIndex];
            const imageName = selectedOption.getAttribute('data-name');
            const imageUrl = selectedOption.value;
            const imageWidth = selectedOption.getAttribute('data-width');
            const imageHeight = selectedOption.getAttribute('data-height');
            const jokeText = document.getElementById('joke').value;
```

```
            document.getElementById('selected-image-name').textContent =
'Selected Image: ' + imageName;
            document.getElementById('selected-image').src = imageUrl;
            document.getElementById('selected-image').style.width = imageWidth +
'px';
            document.getElementById('selected-image').style.height = 'auto';
            document.getElementById('joke-text').textContent = jokeText;
          }

          function handleAutocomplete(input) {
            const autocompleteContainer = document.getElementById('autocomplete-
list');
            autocompleteContainer.innerHTML = '';

            const searchTerm = input.toLowerCase();
            const options = document.getElementById('image').options;

            for (let i = 0; i < options.length; i++) {
              const option = options[i];
              const optionText = option.text.toLowerCase();
              if (optionText.includes(searchTerm)) {
                const autocompleteItem = document.createElement('div');
                autocompleteItem.textContent = option.text;
                autocompleteItem.classList.add('autocomplete-item');
                autocompleteItem.onclick = function() {
                  document.getElementById('search').value = option.text;
                  filterImages(option.text);
                  autocompleteContainer.innerHTML = '';
                };
                autocompleteContainer.appendChild(autocompleteItem);
              }
            }
          }

          function filterImages(searchTerm) {
            const options = document.getElementById('image').options;

            for (let i = 0; i < options.length; i++) {
              const option = options[i];
              const optionText = option.text.toLowerCase();
              if (optionText === searchTerm.toLowerCase()) {
                option.selected = true;
                showSelectedImage(document.getElementById('image'));
                break;
              }
```

```
            }
          }
        </script>
      </body>
      </html>
    `);
  });
});



  // Meme Submit
  app.post("/submit-meme", (req, res) => {
    const { image, joke } = req.body;
    db.query('INSERT INTO memes (image_url, joke_text) VALUES (?, ?)', [image,
joke], (err, results) => {
      if (err) {
        console.error(err);
        res.status(500).send("Internal Server Error");
        return;
      }
      res.redirect(`/view-meme/${results.insertId}`);
    });
  });


  // View-Meme-Page
  app.get("/view-meme/:id", (req, res) => {
    const { id } = req.params;
    db.query('SELECT * FROM memes WHERE id = ?', [id], (err, results) => {
      if (err) {
        console.error(err);
        res.status(500).send("Internal Server Error");
        return;
      }
      if (results.length === 0) {
        res.status(404).send("Meme not found");
        return;
      }
      const meme = results[0];
      res.send(`
        <!DOCTYPE html>
        <html lang="en">
        <head>
          <meta charset="UTF-8">
```

```
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>View Meme</title>
        <link rel="stylesheet" href="/styles.css">
        <style>
          body {
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
            font-family: Arial, sans-serif;
            background-color: #f0f0f0;
          }
          .view-meme-container {
            text-align: center;
            max-width: 800px;
            padding: 20px;
            background-color: #fff;
            border-radius: 8px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
          }
          .joke-text-container {
            max-width: 468.48px;
            margin: 1px auto;
            padding: 0.5px;
            background-color: rgba(255, 255, 255, 0.8);
            border-radius: 8px;
            word-wrap: break-word;
            font-weight: bold;
          }
          .meme-image-container {
            max-width: 468.48px;
            height: 445.98px;
            margin: 2px auto;
            overflow: hidden;
            border-radius: 8px;
          }
          .meme-image {
            width: 100%;
            height: 100%;
            object-fit: cover;
            border-radius: 8px;
          }
          .go-home-button {
            display: block;
```

```
              width: 150px;
              margin: 20px auto;
              padding: 10px 20px;
              background-color: #4CAF50;
              color: white;
              text-decoration: none;
              border-radius: 4px;
              transition: background-color 0.3s ease;
            }
            .go-home-button:hover {
              background-color: #45a049;
            }
          </style>
        </head>
        <body>
          <div class="view-meme-container">
            <div class="joke-text-container">
              <p class="joke-text">${meme.joke_text}</p>
            </div>
            <div class="meme-image-container">
              <img src="${meme.image_url}" alt="Meme Image" class="meme-image">
            </div>
            <a href="/" class="go-home-button">Go Home</a>
            <a href="#" class="go-home-button" id="downloadLink">Download</a>
          </div>
          <script>
            document.getElementById('downloadLink').addEventListener('click',
function(event) {
              event.preventDefault(); // Prevent the default behavior of
following the link
              alert('Your Meme is downloading...');

            });
          </script>
        </body>
        </html>
      `);
    });
});


let port = 8080;
app.listen(port,()=>{
    console.log(`app is Listening on port ${port}`) })
```