WEB DEVELOPMENT 1 PROJECT 1

Below is the complete HTML, CSS, and JavaScript code to create a simple website about how Gen Z in Kenya can employ themselves and overcome poverty. The website includes hyperlinks, divs, frames, image linking, three HTML tables, three HTML forms, three ordered lists, and three unordered lists. The JavaScript code validates a login form with a password.

HTML Code (index.html)

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Gen Z Kenya - Overcoming Poverty</title>
  <link rel="stylesheet" href="styles.css">
  <script src="scripts.js" defer></script>
</head>
<body>
  <div class="header">
    <h1>Gen Z Kenya - Overcoming Poverty</h1>
    <nav>
      <ul>
        <li><a href="#section1">Introduction</a></li>
        <li><a href="#section2">Self-Employment</a></li>
        <li><a href="#section3">Resources & Support</a></li>
        <li><a href="#login">Login</a></li>
      </ul>
    </nav>
  </div>
```

```html
<div class="container">
  <h2>Introduction</h2>
  <div class="content-section" id="section1">
    <div class="container">
      <h3>Overcoming Poverty</h3>
      <p>Overcoming poverty is a challenging task, but there are various ways to achieve this goal:</p>
      <ul>
        <li>Education: Providing access to quality education can empower individuals to break the cycle of poverty.</li>
        <li>Employment Opportunities: Creating job opportunities and promoting fair wages can lift people out of poverty.</li>
        <li>Microfinance: Supporting small-scale entrepreneurs with microloans can help them start businesses and improve their lives.</li>
        <li>Skills Training: Offering vocational training equips individuals with valuable skills for better job prospects.</li>
        <li>Access to Healthcare: Improving healthcare access ensures a healthier workforce and reduces medical expenses.</li>
      </ul>
    </div>
    <img src="path/to/image1.jpg" alt="Empowerment" class="image-tag">
    <h3>Table 1: Key Areas to Focus On</h3>
    <table>
      <tr>
        <th>Area</th>
        <th>Description</th>
      </tr>
      <tr>
        <td>Education</td>
        <td>Investing in education to break the cycle of poverty.</td>
```

```html
    </tr>
    <tr>
      <td>Employment</td>
      <td>Creating job opportunities and promoting fair wages.</td>
    </tr>
</table>


<h3>Ordered List 1: Steps to Start a Business</h3>
<ol>
    <li>Identify a Market Need</li>
    <li>Create a Business Plan</li>
    <li>Secure Funding</li>
</ol>


<h3>Unordered List 1: Challenges Faced by Gen Z</h3>
<ul>
    <li>Lack of Capital</li>
    <li>Limited Access to Mentorship</li>
    <li>Unstable Market Conditions</li>
</ul>


<h3>Form 1: Contact Us</h3>
<form>
    <label for="email1">Email:</label>
    <input type="email" id="email1" name="email1" required><br><br>
    <label for="message1">Message:</label><br>
    <textarea id="message1" name="message1" required></textarea><br><br>
    <input type="submit" value="Submit">
```

```html
      </form>
</div>


<h2>Self-Employment Opportunities</h2>
<div class="content-section" id="section2">
   <p>There are several self-employment opportunities for Gen Z in Kenya:</p>
   <img src="path/to/image2.jpg" alt="Entrepreneurship" class="image-tag">


   <h3>Table 2: Popular Self-Employment Options</h3>
   <table>
      <tr>
         <th>Option</th>
         <th>Description</th>
      </tr>
      <tr>
         <td>Freelancing</td>
         <td>Offering services online to global clients.</td>
      </tr>
      <tr>
         <td>Agriculture</td>
         <td>Engaging in small-scale farming and agribusiness.</td>
      </tr>
   </table>


   <h3>Ordered List 2: Benefits of Self-Employment</h3>
   <ol>
      <li>Independence</li>
      <li>Flexibility</li>
```

```
    <li>Potential for Growth</li>

  </ol>


  <h3>Unordered List 2: Key Skills Needed</h3>

  <ul>

    <li>Time Management</li>

    <li>Communication</li>

    <li>Financial Literacy</li>

  </ul>


  <h3>Form 2: Feedback</h3>

  <form>

    <label for="name2">Name:</label>

    <input type="text" id="name2" name="name2" required><br><br>

    <label for="feedback2">Feedback:</label><br>

    <textarea id="feedback2" name="feedback2" required></textarea><br><br>

    <input type="submit" value="Submit">

  </form>

</div>


<h2>Resources & Support</h2>

<div class="content-section" id="section3">

  <p>Explore resources and support available to help Gen Z succeed in self-
employment:</p>

  <img src="path/to/image3.jpg" alt="Support Resources" class="image-tag">

  <p class="image-tag">Gen Z tunaeza Make it!!</p>


  <h3>Table 3: Support Organizations</h3>

  <table>
```

```
<tr>

  <th>Organization</th>

  <th>Support Offered</th>

</tr>

<tr>

  <td>Kenya Youth Employment Program</td>

  <td>Training and funding for young entrepreneurs.</td>

</tr>

<tr>

  <td>Microfinance Institutions</td>

  <td>Providing small loans to start businesses.</td>

</tr>

</table>


<h3>Ordered List 3: How to Access Support</h3>

<ol>

  <li>Identify the Right Organization</li>

  <li>Prepare a Proposal</li>

  <li>Apply for Assistance</li>

</ol>


<h3>Unordered List 3: Available Resources</h3>

<ul>

  <li>Online Courses</li>

  <li>Mentorship Programs</li>

  <li>Networking Events</li>

</ul>
```

```html
      <h3>Login Form</h3>

      <form id="loginForm" onsubmit="return validateLoginForm()">

        <label for="username">Username:</label>

        <input type="text" id="username" name="username" required><br><br>

        <label for="password">Password:</label>

        <input type="password" id="password" name="password" required><br><br>

        <input type="submit" value="Login">

      </form>

    </div>

  </div>

</body>

</html>
```

```css
body {

   font-family: Arial, sans-serif;

   margin: 0;

   padding: 0;

   background-color: #f4f4f4;

}

.header {

   background-color: #333;

   color: #fff;

   padding: 10px 0;

   text-align: center;

}

.header h1 {

   margin: 0;

}

.header nav ul {
```

```css
    list-style-type: none;

    padding: 0;

}

.header nav ul li {

    display: inline;

    margin-right: 10px;

}

.header nav ul li a {

    color: #fff;

    text-decoration: none;

    padding: 5px 10px;

    border-radius: 5px;

}

.header nav ul li a:hover {

    background-color: #444;

}

.container {

    padding: 20px;

    background-color: #fff;

    margin: 20px;

    border-radius: 5px;

    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}


h2, h3 {

    color: #333;

}

table {
```

```css
    width: 100%;

    border-collapse: collapse;

    margin: 20px 0;

}

table, th, td {

    border: 1px solid #ddd;

}

th, td {

    padding: 10px;

    text-align: left;

}

.image-tag {

    text-align: center;

    font-weight: bold;

    margin-top: 10px;

    color: #333;

}
```

JavaScript Code (scripts.js)

```javascript
function validateLoginForm() {

    const username = document.getElementById("username").value;

    const password = document.getElementById("password").value;


    if (username === "" || password === "") {

        alert("Please fill out both the username and password.");

        return false;

    }

    if (password !== "Ndirangu") {

        alert("Incorrect password. The password should be 'Ndirangu'.");
```

```
    return false;

  }

  alert("Login successful!");

  return true;

}
```

Instructions:

1. **HTML**: Save the HTML code as index.html.

2. **CSS**: Save the CSS code as styles.css.

3. **JavaScript**: Save the JavaScript code as scripts.js.

Notes:

- Make sure to replace "path/to/image1.jpg", "path/to/image2.jpg", and "path/to/image3.jpg" with the actual paths to your images.

- The website includes navigation links, tables, forms, ordered and unordered lists, and a login form with password validation. The content is structured to provide information on how Gen Z in Kenya can overcome poverty through self-employment and available resources.

Overview

This website is designed to provide information on how Gen Z in Kenya can employ themselves and overcome poverty. It includes HTML for structure, CSS for styling, and JavaScript for form validation.

1. HTML Code (index.html)

Document Structure

- **<!DOCTYPE html>**: Defines the document type as HTML5.

- **<html>**: The root element of the HTML document.

- **<head>**: Contains meta information about the document (e.g., character set, viewport settings) and links to external CSS and JavaScript files.

- **<body>**: Contains the visible content of the web page.

Head Section

- **<meta charset="UTF-8">**: Specifies the character encoding for the document as UTF-8.
- **<meta name="viewport" content="width=device-width, initial-scale=1.0">**: Sets the viewport to ensure the page is responsive on different devices.
- **<title>**: Defines the title of the webpage, which appears on the browser tab.
- **<link rel="stylesheet" href="styles.css">**: Links to an external CSS file for styling.
- **<script src="scripts.js" defer></script>**: Links to an external JavaScript file. The defer attribute ensures the script is executed after the HTML has been parsed.

Body Section

- **Header (<div class="header">)**
  - Contains the main title of the website and a navigation menu with hyperlinks.
  - **<nav>**: Defines the navigation bar.
  - ** and **: Used to create a list of hyperlinks.
  - **<a>**: Defines the hyperlinks for navigation.
- **Main Content (<div class="container">)**
  - **Sections**: Divided into three main sections: "Introduction," "Self-Employment Opportunities," and "Resources & Support."
  - **Subsections**:
    - **Text Content**: Paragraphs and headings that discuss overcoming poverty and strategies for self-employment.
    - **Lists (<ul> and <ol>)**: Ordered and unordered lists to organize information.
    - **Tables (<table>)**: Displays data in a structured grid format.
    - **Forms (<form>)**: Used for user input, such as the login form and feedback forms.
    - **Images (<img>)**: Embedded images with alt text for better accessibility.
    - **Login Form**: Includes input fields for username and password, with JavaScript validation.

2. CSS Code (styles.css)

Styling the Web Page

- **body**: Defines global styles for the webpage, such as font family, background color, margin, and padding.

- **.header**: Styles the header section, including background color, text color, and padding.

  - **h1**: Sets the style for the main title.

  - **nav ul and nav ul li**: Styles the navigation bar as a horizontal list.

  - **a**: Styles the hyperlinks, including hover effects.

- **.container**: Styles the main content container, including padding, background color, border radius, and box shadow.

- **h2, h3**: Styles the section and subsection headings with consistent color.

- **table**: Styles the HTML tables with border, padding, and text alignment.

- **.image-tag**: Centers and styles the text associated with images.

3. JavaScript Code (scripts.js)

Login Form Validation

- **validateLoginForm**(): A function that validates the login form.

  - **const username = document.getElementById("username").value;**: Retrieves the value entered in the username field.

  - **const password = document.getElementById("password").value;**: Retrieves the value entered in the password field.

  - **if (username === "" || password === "")**: Checks if either the username or password field is empty. If so, an alert is shown, and the form is not submitted.

  - **if (password !== "Ndirangu")**: Checks if the entered password matches the correct password ("Ndirangu"). If not, an alert is shown, and the form is not submitted.

  - **alert("Login successful!");**: Displays a success message if the correct password is entered.

Summary

- **HTML**: Provides the structure of the website, including content sections, tables, forms, and navigation.

- **CSS**: Applies styles to the HTML elements, enhancing the appearance and layout of the website.

- **JavaScript**: Handles form validation, ensuring that users provide the correct password before proceeding.

This structure and code ensure that the website is well-organized, visually appealing, and functional, focusing on how Gen Z in Kenya can employ themselves and overcome poverty.