CHAPTER 1

INTRODUCTION

The Age Calculator project is a simple yet effective tool designed to help users calculate their age based on their birthdate. With a clean and user-friendly interface, this web application allows you to input your birthdate, and with the click of a button, it provides you with an accurate breakdown of your age in years, months, and days.

The project's aesthetic appeal is enhanced by its sleek design, featuring a modern black and white color scheme with a hint of orange. The use of the elegant "Poppins" font from Google Fonts ensures a pleasant and readable user experience. The responsive layout ensures that the calculator looks great on both desktop and mobile devices.

Behind the scenes, the JavaScript code powers the age calculation, taking into account leap years and handling various scenarios, such as future birthdates. In addition to its core functionality, this Age Calculator project offers a seamless and error-handling experience. It ensures that users are informed and alerted if they input a birthdate that suggests they haven't been born yet. With this thoughtful approach, the calculator not only provides accurate age results but also ensures a user-friendly and reliable experience, making it a valuable tool for anyone wanting to determine their age or that of others effortlessly.

CHAPTER 2

IMPLEMENTATION

HTML Code

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>FutureTech - Home</title>
    <link rel="stylesheet" href="style.css">
</head>
<body >
    <section class="bg">
    <header>
        <h1>Welcome to FutureTech</h1>
        <nav class="w">
            <ul>
                <li><a href="index.html">Home</a></li>
                <li><a href="about.html">About</a></li>
                <li><a href="contact.html">Contact</a></li>
            </ul>
        </nav>
    </header>

    <main>
        <section>
            <h2>Welcome to the Future</h2>
            <p>Explore the latest advancements in technology and science.</p>
        </section>
    </main>
    <footer>
        <p>&copy; 2023 FutureTech</p>
    </footer>
</section>
</body>
</html>
```

The provided HTML code represents a webpage for a website named "FutureTech." The document structure adheres to HTML5 standards, including appropriate meta tags for character encoding and viewport settings. The title of the webpage,

```
      <button class="btn btn-large" id="generate">
        Generate Password
      </button>
    </div>
    <script src="script.js"></script>
  </body>
</html>
```

This HTML code defines a basic webpage structure for a password generator tool. It incorporates metadata, external CSS stylesheets, and JavaScript functionality. The webpage comprises a container division containing a title, a prominent "Password Generator" heading, a result display area, settings for password customization (including length and character types), and a "Generate Password" button. The user can tailor the password by adjusting checkboxes and an input field. When the "Generate Password" button is activated, JavaScript, presumably embedded in an external script.js file, generates a password based on the user's preferences. The generated password is then presented in the result container. Additionally, users can easily copy the generated password to their clipboard using the provided clipboard button. In essence, this HTML code establishes a user-friendly interface for generating secure passwords with customizable options.

The settings section, which includes checkboxes for character type inclusion and an input field for password length, offers users flexibility in tailoring the generated passwords to meet their specific security requirements. The "Generate Password" button acts as the trigger for the password generation process, employing JavaScript to create a random password based on the user's chosen parameters.