

Project Development Phase-||

Debugging & Traceability

TEAM LEAD	S.KARTHIKRAJ
NM ID	B2DF7E4FB2160FDA23848332D658AAE7
PROJECT NAME	Creating a social media ad campaign in facebook

Debugging:

Debugging is the process of identifying and fixing errors or bugs in a software program. These errors can range from syntax errors to logical flaws that cause the software to behave incorrectly. Debugging is a fundamental skill for developers and is essential for ensuring that software functions correctly and efficiently.

Key debugging techniques include:

Print Statements: Adding print statements to your code to output variable values and check the program's state at different points.

Interactive Debugging: Using integrated development environments (IDEs) with debugging tools to set breakpoints, step through code, and inspect variables.

Error Messages: Paying close attention to error messages and stack traces to pinpoint the source of issues.

Unit Testing: Writing automated tests to catch and fix issues early in the development process.

Traceability:

Traceability in software development refers to the ability to trace or track changes and relationships between various elements of the software development process. It involves documenting and connecting requirements, design, code, testing, and other artifacts to understand how changes or issues in one area may impact others.

Requirements Traceability: Ensuring that every requirement is linked to design, code, and test cases. This helps maintain alignment with the original project goals.

Version Control: Using version control systems like Git to track changes in the source code and documentation over time.

Issue Tracking: Utilizing issue tracking systems (e.g., Jira, Trello) to log and monitor bugs, feature requests, and tasks throughout the software development lifecycle.

Documentation: Maintaining up-to-date documentation that outlines the architecture, design decisions, and how different components of the software interact.

```
<!DOCTYPE html>
<html>
<head>
  <title>GK CLOTHES</title>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
  <header>
    <h1>Welcome to GK CLOTHES</h1>
    <nav>
      <ul>
        <li><a href="index.html">Home</a></li>
        <li><a href="shop.html">Shop</a></li>
        <li><a href="contact.html">Contact Us</a></li>
      </ul>
    </nav>
  </header>

  <main>
    <section class="hero">
      <h2>Discover the Latest Fashion Trends</h2>
      <p>Shop our exclusive collection of clothing and accessories.</p>
      <a href="shop.html" class="btn">Shop Now</a>
    </section>

    <section class="featured-products">
      <h2>Featured Products</h2>
      <div class="product">
```

```

```

```
<h3>Product 1</h3>
```

```
<p>Price: $XX.XX</p>
```

```
</div>
```

```
<!--More product listings go here -->
```

```
</section>
```

```
</main>
```

```
<footer>
```

```
<p>&copy; 2023 GK CLOTHES</p>
```

```
</footer>
```

```
</body>
```

```
</html>
```