

SUMMER INTERNSHIP PROJECT

Report on

“WEB DEVELOPMENT USING HTML, CSS AND JAVASCRIPT”

at

THE NAME OF THE COMPANY IS INTER DECCAAN SOLUTIONS

THE COMPANY IS LOCATED IN KARUR

Summer Training Project Report

Submitted in the partial fulfillment of (M.Sc. Computer Science) III Semester

DEPARTMENT OF COMPUTER SCIENCE



GOVERNMENT ARTS COLLEGE (AUTONOMOUS), Karur-5.

(Affiliated to Bharathidasan University, Tiruchirapalli - 24)

(Re-Accredited with B++ Grade by NAAC)

(BATCH 2023-2025)

MENTOR

Dr. C. JAYANTHI

Associate professor

SUBMITTED BY

Name: M. Fathima Beevi

Reg.no: 232510

Department: M.Sc. Computer Science

DECLARATION

I am **M. FATHIMA BEEVI** do here by declare that the Internship Report has been undertaken by me as part of my studies in the degree M.Sc. Computer Science. I have completed this study under the guidance of **Dr. C. JAYANTHI**. Associate Professor, Department of **COMPUTER SCIENCE**, **GOVERNMENT ARTS COLLEGE (AUTONOMOUS), KARUR-5** and **INTER DECCAAN SOLUTIONS** their guidance.

I also declare that this work has not been submitted for the award of any degree, diploma, associate ship or fellowship or any other title in this University or any other University.

Place: Karur

Signature of the Student

Date:

M. FATHIMA BEEVI



ACKNOWLEDGEMENT

I am indebted to many people who helped me accomplish this internship successfully.

I thank **Dr. S. ALEXENDER**, the Principal for granting permission to undertake this internship program.

I thank **Dr. M. PRABHAKARAN** Head of the Department of Computer Science for the constant support in completing this internship program.

I thank **INTER DECCAAN SOLUTIONS** for allowing me to undertake this internship program and supported me gain the knowledge to bridge the gap between the curriculum and the industry.

I thank **Dr. C. JAYANTHI**, Associate Professor of Department of Computer Science for her support and guidance during the course of my Internship. I remember him with much gratitude for his patience and motivation, but for which I could not have submitted this work.

I thank my parents for their blessing and constant support, without which this internship would not have seen the light of day.

Signature of the Student

M. FATHIMA BEEVI

Roll Number: 232510

CERTIFICATE

This is to certify that the Internship report submitted by **M. FATHIMA BEEVI, 232510** is a record of internship work done by her during the Academic Year 2023-25 at **INTER DECCAAN SOLUTIONS** under my guidance and supervision in partial fulfillment of degree. This Internship report has not been submitted for the award of any degree, diploma, associateship or fellowship or any other title in this University or any other University.

Head of the Department

Signature

Faculty Guide

Signature

Internal Signature

External Signature

COMPANY CERTIFICATE

CERTIFICATE

ISSUED BY INTER DECCAAN SOLUTIONS



This is to Certify that **FATHIMA BEEVI M** of **GOVERNMENT ARTS COLLEGE (AUTONOMOUS), KARUR** has contributed to our Company as an Intern from 03.06.2024 to 13.06.2024 in the area of **WEB DEVELOPMENT** and successfully completed the Internship.

VISHWA G PARAMANANDHAM
MANAGING DIRECTOR

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DAYS OVERVIEW OF INTERNSHIP ACTIVITIES

DATE	DAY	NAME OF THE TOPIC/MODULE COMPLETED
03/06/24	Monday	Introduction to HTML
04/06/24	Tuesday	HTML Documentation
05/06/24	Wednesday	HTML Comments
06/06/24	Thursday	HTML Images
07/06/24	Friday	Introduction to CSS
08/06/24	Saturday	How to Add CSS
10/06/24	Monday	CSS Outline Style
11/06/24	Tuesday	HTML Lists and CSS List Properties
12/06/24	Wednesday	Introduction to JAVA SCRIPT
13/06/24	Thursday	Creating the Web Page Using HTML, CSS and JAVA SCRIPT

INTRODUCTION

- The Web Development internship offers practical work experience and an introduction to creating and improving web-based systems. This internship will involve challenging opportunities, real world projects. It's a fantastic opportunity to gain hands-on experience in the web development field.
- Web development is the work involved in developing a website for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing a simple single static page of plain text to complex web applications, electronic businesses, and social network services.
- Throughout this internship, I aim to gain hands-on experience with cutting-edge technologies, frameworks, and tools, such as HTML, CSS, JavaScript. I am excited to work on real-world projects, collaborate with experienced developers and designers, and develop a deep understanding of the web development lifecycle, from conceptualization to deployment.
- This internship provides a unique opportunity to bridge the gap between theory and practice, apply academic knowledge in real-world scenarios, and develop a professional portfolio that showcases my skills, creativity, and passion for web development. I am committed to learning, growing, and contributing to the team's success, and I am excited to embark on this journey of discovery, innovation, and professional growth.

LEARNING OBJECTIVES

- Understand the principles of creating an effective web page, including an in depth consideration of information architecture.
- Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice.
- Develop skills in analyzing the usability of a web site.
- Understand how to plan and conduct user research related to web usability.
- Learn the language of the web: HTML and CSS.
- Learn techniques of responsive web design, including media queries.
- Be able to embed social media content into web pages.

ORGANIZATION PROFILE



INTER DECCAAN SOLUTIONS

COMPANY NAME: INTER DECCAAN SOLUTIONS, KARUR.

COMPANY WEBSITE: <http://www.interdeccaan.in/>

COMPANY MISSION

Company's mission is to offer paralleled solutions to our clients based on Innovative Thinking, which will enable them to run ahead of their competitors.

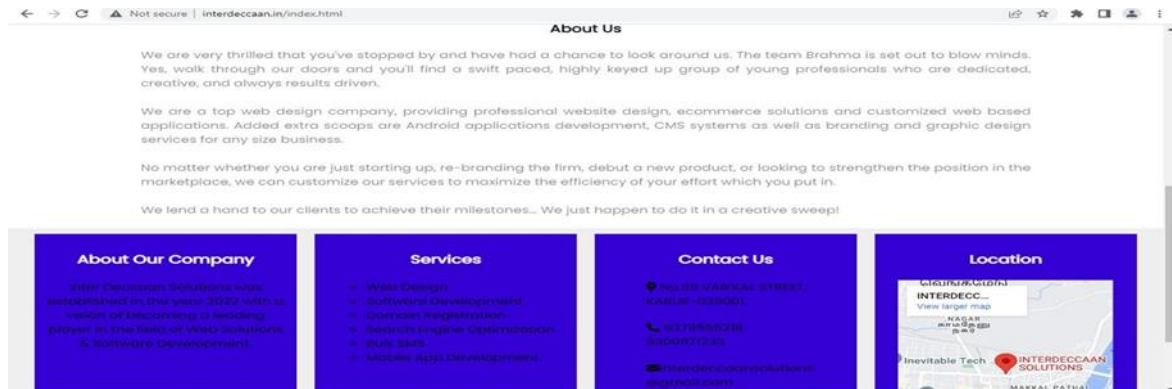
- To value our valuable customers, we have
- High depth in Software Skills
- Strong team with tactical team members
- Emphasize creativity, originality
- Testing before delivering
- Deliver in Time
- Consistent delivery of high-quality products at reasonably low costs
- Strict maintenance of confidentiality

[Home](#)[Services](#)[Technologies](#)[Contact](#)

Welcome To INTER DECCAAN SOLUTIONS

WE LOVE GOOD DESIGN AND CLEAN CODING

Good isn't good enough. It's always essential, when you need them. That way, We contribute our clients with Custom tailored Web based software needs, mobile android apps and more. We're a small yet energized young team passionate for creative development. We craft user friendly Business websites, web apps to stand out of the crowd. The team Brahma achieved a fantastic job by pulling together few million lines of coding to achieve Plug and Play website models and ecommerce solutions.



SERVICES

Right from web designing to providing end to end solutions, We work in a variety of domains like native mobile app, custom app development and offer an impressive service when it comes to business. By Keeping in mind that today is Significant, we lead shaping a better tomorrow.



Web Development
"Let us build and show the world your ideal" Building a website has never been...



Mobile App Development
Mobile application development is



End-to-End Solutions
Solutions are the start point of every idea. By keeping this as the bottom line, w...



UI/UX Design
When it comes to design, we

TECHNOLOGIES

We have expertise in all types of popular tech stack and offer the top trending technologies on demand. We are keen in providing our clients with the best possible technology which we always consider to be a part of a valued service.



BOOTSTRAP

Powerful, extensible, and feature-packed frontend toolkit. Build and customize with Sass, utilize prebuilt grid system and components, and bring projects to life with powerful JavaScript plugins.

KOTLIN

Kotlin is an expressive and concise programming language that reduces common errors. Easily integrates into existing apps and is 100% interoperable with the Java language. Code safely.



DOMAIN SPECIFICATION

DOMAIN NAME: WEB DEVELOPMENT

ABOUT

- Web development refers to the building, creating, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet i.e. websites.

The word Web Development is made up of two words, that is

- **Web:** It refers to websites, web pages or anything that works over the internet.
- **Development:** Building the application from scratch.

Web Development can be classified into two ways

- Frontend Development
- Backend Development

CHALLENGES AND OPPURNITIES IN WEB DEVELOPMENT

There are many challenges in web development.

➤ Setting Goals

The first thing you have to overcome in a project is to clearly define your goals. Goals can affect or reduce the quality of your website or web application. Starting with a specific goal simplifies the process and allows developers to focus on the right direction.

➤ Designing and UI (User Interface)

The first thing that catches the viewer's attention is usually an attractive design. People like to interact with attractive designs as well as web development. Everything created for marketing should be of high quality.

➤ Speed and Performance

Search engines can provide Google users with thousands of results by searching for just one word. With so many sites to choose from, users don't have to wait for the site to load.

➤ Working Frame and Knowledge Required

There are some frameworks, programming languages, and equipment to be had with inside the net improvement industry, for constructing net apps.

➤ Growth and Scalability

Scalability refers to the growth of a web application over time. This is a long-term plan that starts with a basic business model and plans to expand in the future.

➤ Safety and Security

Security is one of the most worrisome issues for modern enterprises with a large online presence. Protecting your application is important for protecting sensitive information.

TECHNICAL CHALLENGES

➤ Browser compatibility

Browser and platform compatibility are typically one of the biggest challenges for web developers. Therefore, you need to make sure the sites work on all the existing browsers on the internet and devices of different screen sizes.

➤ User experience

Designing UI and developing UX both need to go hand in hand if you want to create innovative experiences for your users. However, there should be an alignment between the designing process and the intended outcome to build reliable website UX.

➤ Performance & speed

Achieving maximum loading speed for a website is a crucial challenge for any web development company. According to Neil Patel, 47% of the users expect a website to load in two seconds, which is not an easy feat considering the many elements that render with every click.

➤ Scaling websites

Scaling websites is about sustainable performance, whether it's 10 users per minute or 100 visitors per minute. However, the scalability of a website is not just about scaling servers but about several other elements.

➤ Security

Website security is essential, especially when 50% of web applications are susceptible to high-risk vulnerabilities. Additionally, cyberattacks have increased drastically over the past few years, with only 5% of enterprise data folders protected against threats.

OPPURTUNITIES

SCOPE OF WEB DEVELOPER IN FUTURE

Studying web design and development provides you with the technical and design-related skills needed for a career in the web, software development and computer science industries

- Applications developer
- Game developer
- Multimedia programmer
- Multimedia specialist
- SEO specialist
- UX designer
- UX researcher
- Web content manager
- Web designer
- Web developer

BENEFITS OF WEB DEVELOPMENT

- Runs on any OS
- Runs using easy URL
- Need not be downloaded:
- Need not be updated like apps:
- Cost Efficient

SOFTWARE DETAILS & SOFTWARE INSTALLATION

SOFTWARE

- Visual studio code

HOW TO JAVA PATH SETTING

- Windows/Linux - File > Preferences > Settings
- On MacOS - Code > Preferences > Settings
- Visual Studio Code is a free source-code editor made by Microsoft for Linux, Windows, and mac OS. VS Code has support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, add keyboard shortcuts, edit preferences, and install extensions to add functionality.
- Its extensive library of extensions, customization options, and cross-platform compatibility (Windows, macOS, Linux) make it an ideal tool for developers, whether they're working on small projects or large-scale enterprise applications.
- Its cross-platform compatibility (Windows, macOS, Linux) and ability to support a wide range of development workflows, from small projects to large-scale enterprise applications, make VS Code an ideal tool for developers, whether they're working solo or in teams.

VARIABLE PATH

- C:\Users\BOSS\Desktop\new\.vscode

TECHNOLOGY

Browsers

- Browsers are the interpreters of the web. They request information and then when they receive it, they show us on the page in a format we can see and understand.
- Google Chrome - Currently, the most popular browser brought to you by Google
- Safari - Apple's web browser
- Firefox - Open-source browser supported by the Mozilla Foundation
- Internet Explorer - Microsoft's browser. You will mostoften hear web developers complain about this one.

HTML

- HTML is a markup language. It provides the structure of a website so that web browsers know what to show.

CSS

- CSS is a Cascading Style Sheet. CSS let's web designers change colors, fonts, animations, and transitions on the web. They make the web look good.
- LESS - a CSS pre-compiler to make working with CSS easier and add functionality
- SASS - a CSS pre-compiler to make working with CSS easier and add functionality

Programming Languages

- Programming languages are ways to communicate to computers and tell them what to do.
- There are many different programming languages just like there are many different lingual languages (English, Spanish, French, Chinese, etc). One is not better than the other.
- Developers typically are just proficient at a couple so they promote those more than others.

Frameworks

- Frameworks are built to make building and working with programming languages easier. Frameworks typically take all the difficult, repetitive tasks in setting up a new web application and either does them for you or make them very easy for you to do.

Libraries

- Libraries are groupings of code snippets to enable a large amount of functionality without having to write it all by yourself. Libraries typically also go through the trouble to make sure the code is efficient and works well across browsers and devices (not always the case, but typically they do).

Databases

- Databases are where all your data is stored. It's like a bunch of filing cabinets with folders filled with files. Databases come mainly in two flavors: SQL and NoSQL.
- SQL provides more structure which helps with making sure all the data is correct and validated. NoSQL provides a lot of flexibility for building and maintaining applications.

Client (or Client-side)

- Client's can be desktop computers, tablets, or mobile devices. There are typically multiple clients interacting with the same application stored on a server.

Server (or Server-side)

- A server is where the application code is typically stored. Requests are made to the server from clients, and the server will gather the appropriate information and respond to those requests.

Front-end

- The front-end is comprised of HTML, CSS, and Javascript. This is how and where the website is shown to users.

TOOLS DESCRIPTION

WEB DEVELOPMENT TOOLS

Various tools and technology were used during our internship training. Some of them are listed below

- HTML
- CS
- JAVA SCRIPT

1. HTML

HTML stands for Hyper Text Mark-up Language. It is used to design web pages using mark-up language. HTML is the combination of Hypertext and Mark-up language. Hypertext defines the link between the web pages. Mark-up language is used to define the text document within tag which defines the structure of web pages. HTML5 is the fifth and current version of HTML. It has improved the mark-up available for documents and has introduced application programming interfaces (API) and Document Object Model (DOM).

2. CSS

Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

There are three types of CSS which are given below

- Inline CSS
- Internal or Embedded CSS
- External CSS.

3. JavaScript

JavaScript is a lightweight, cross-platform and interpreted scripting language. It is well-known for the development of web pages, many non- browser environments also use it. JavaScript can be used for Client-side developments as well as Server-side developments.

LEARNING OUTCOME

➤ Be able to use the HTML programming language

- Resolves written HTML codes
- Runs the page she has designed using HTML codes

➤ Be able to use the Design Programs

- Uses Microsoft Expression Web 4 program
- Designs site and page via Microsoft Expression Web 4 program
- Uses the program Web Page Maker
- Designs site and page via Web Page Maker program

➤ Publishes the site she designed

- Uses Domain Name and services

➤ Be able to make changes on the Site

- Updates on the site when needed

CONCLUSION

In today's Web development, a good page design is essential.

- A bad design will lead to the loss of visitors and that can lead to a loss of business.
- In general, a good page layout has to satisfy the basic elements of a good page design. This includes color contrast, text organization, font selection, style of a page, page size, graphics used, and consistency.
- In order to create a well-designed page for a specific audience.
- The developer needs to organized and analyze the users' statistics and the background of the users.
- Although it can be hard to come up with a design that is well suited to all of the users, there will be a design that is appropriate for most of the audience.
- The better the page design, the more hits a page will get. That implies an increase in accessibility and a possible increase in business.

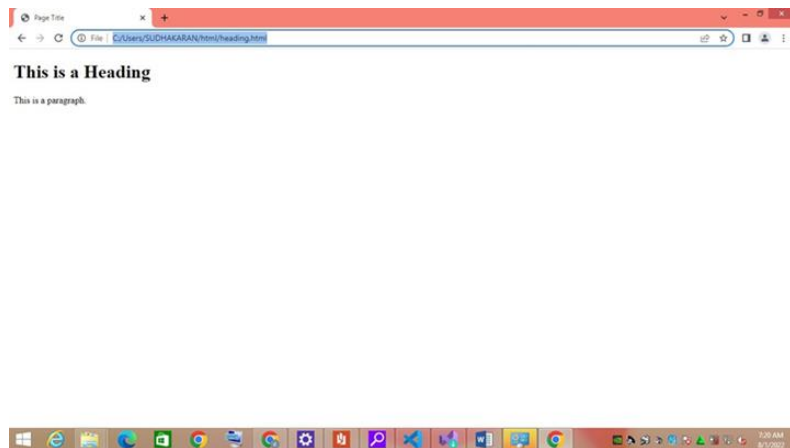
APPENDIX

1. HTML

Below example illustrate the HTML content

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h1>This is a Heading</h1>
<p> This is a paragraph. </p>
</body> </html>
```

OUTPUT

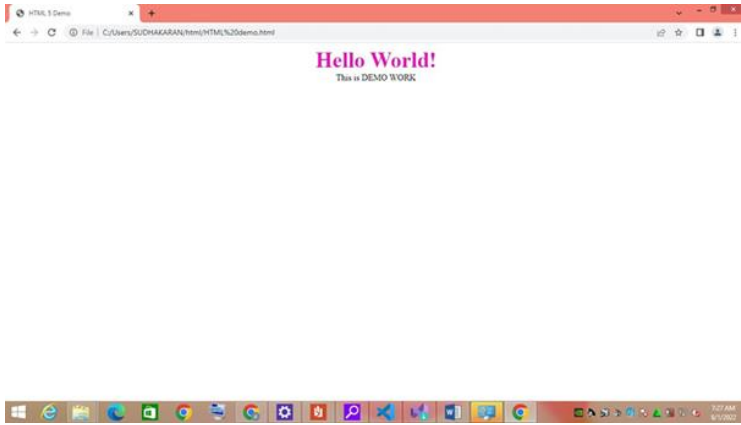


2. CSS

Below example illustrate the CSS content

```
<!DOCTYPE html>
<html>
<head>
<title> HTML 5 Demo</title>
<style>
.intern { font-size:40px; font-weight:bold; color:green; } body { text-align:center; }
</style>
</head>
<body>
<div class = "intern">Hello World!
</div> <aside> <div>This is Insiya Badshah</div> </aside>
</body>
</html>
```

OUTPUT



3. JAVA SCRIPT

Below example illustrate the java script content

```
const num1 = 5; const num2 = 3;  
// add two numbers  
const sum = num1 + num2;  
// display the sum  
console.log('The sum of ' + num1 + ' and ' + num2 + ' is: ' + sum);
```

```
const num1 = 5; const num2 = 3; // add two numbers const sum = num1 + num2; //  
display the sum console.log("The sum of" + num1 'and' + num2 + 'is:' + sum);
```

HTML CODING FOR WEB PAGE

index.html:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Greenfield Academy</title>  
  <link rel="stylesheet" href="styles.css">  
</head>  
<body>  
  <header>  
    <div class="container">  
      <h1>Greenfield Academy</h1>  
      <nav>  
        <ul>  
          <li><a href="#about">About Us</a></li>  
          <li><a href="#courses">Courses</a></li>  
          <li><a href="#contact">Contact</a></li>  
        </ul>  
      </nav>  
    </div>  
  </header>  
  <section id="about" class="about">
```

```
<div class="container">
  <h2>About Us</h2>
  <p>Welcome to Greenfield Academy, where education meets excellence. We offer a nurturing
environment that fosters academic success and personal growth.</p>
</div>
</section>
<section id="courses" class="courses">
  <div class="container">
    <h2>Our Courses</h2>
    <div class="grid">
      <div class="card">
        
        <h3>Mathematics</h3>
        <p>Comprehensive mathematics curriculum from basic arithmetic to advanced calculus.</p>
      </div>
      <div class="card">
        
        <h3>Science</h3>
        <p>Explore the wonders of biology, chemistry, and physics through hands-on learning.</p>
      </div>
      <div class="card">
        
        <h3>Humanities</h3>
        <p>Dive into history, literature, and social studies with engaging and interactive lessons.</p>
      </div>
    </div>
  </div>
</section>
<section id="contact" class="contact">
  <div class="container">
    <h2>Contact Us</h2>
    <form>
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required>
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required>
      <label for="message">Message:</label>
      <textarea id="message" name="message" required></textarea>
      <button type="submit">Send Message</button>
    </form>
  </div>
</section>
<footer>
  <div class="container">
    <p>&copy; 2024 Greenfield Academy. All rights reserved.</p>
  </div>
</footer>
</body>
</html>
```


CSS CODING FOR WEB PAGE

Style.css:

```
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    line-height: 1.6;
}
.container {
    width: 80%;
    margin: auto;
    overflow: hidden;
}
header {
    background: #4CAF50;
    color: #fff;
    padding-top: 30px;
    min-height: 70px;
    border-bottom: #388E3C 3px solid;
}
header a {
    color: #fff;
    text-decoration: none;
    text-transform: uppercase;
    font-size: 16px;
}
header ul {
    padding: 0;
    list-style: none;
}
header li {
    display: inline;
    padding: 0 20px 0 20px;
}
header #branding {
    float: left;
}
header nav {
    float: right;
    margin-top: 10px;
}
header .highlight, header .current a {
    color: #ffeb3b;
    font-weight: bold;
}
header a:hover {
    color: #ffeb3b;
    font-weight: bold;
}
.about, .courses, .contact {
    padding: 30px 0;
    text-align: center;
}
.about h2, .courses h2, .contact h2 {
    font-size: 30px;
```

```
    margin-bottom: 20px;
}
.courses .grid {
    display: flex;
    justify-content: space-around;
    flex-wrap: wrap;
}
.courses .card {
    background: #f4f4f4;
    margin: 10px;
    padding: 10px;
    width: 30%;
}
.courses .card img {
    width: 100%;
    height: auto;
}
.courses .card h3 {
    margin-top: 10px;
}
form {
    display: flex;
    flex-direction: column;
}
form label {
    margin: 5px 0;
}
form input, form textarea {
    padding: 10px;
    margin-bottom: 10px;
}
form button {
    padding: 10px;
    background: #4CAF50;
    color: #fff;
    border: none;
}
form button:hover {
    background: #388E3C;
    cursor: pointer;
}
footer {
    background: #4CAF50;
    color: #fff;
    text-align: center;
    padding: 20px 0;
    margin-top: 20px;
}
```

JAVA SCRIPT CODING FOR WEB PAGE

script.js:

```
console.log("JavaScript is working!");
document.querySelector("form button").addEventListener("click", function(event) {
event.preventDefault();console.log("Form submitted!");
document.querySelectorAll("nav ul li a").forEach(function(anchor) {
anchor.addEventListener("click", function(event) {
event.preventDefault();console.log("Navigation item clicked!");
});
});
document.querySelectorAll(".courses .card").forEach(function(card) {
card.addEventListener("click", function() {
console.log("Course card clicked!");
});
});
});
```

OUTPUT



REFERENCE

Reference for the Front End Programs

- HTML
- CSS
- JAVA SCRIPT

<https://en.wikipedia.org/wiki/HTML>

<https://en.wikipedia.org/wiki/CSS>.

<https://simple.wikipedia.org/wiki/JavaScript>