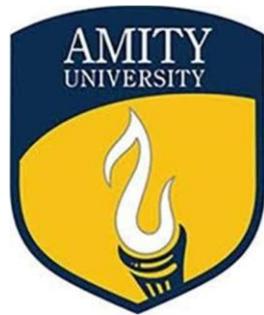


Summer Internship ETSI100
Responsive Portfolio Website using HTML, CSS, and JavaScript

Submitted To

Amity University, Sector- 125, NOIDA, Uttar Pradesh



In partial fulfillment of the requirements for the award of the degree of
BACHELOR OF COMPUTER APPLICATIONS

By **Ankit Dhingra (A1004822257)**

Under the guidance of **Dr. Seema Rani**

**AMITY INSTITUTE OF INFORMATION TECHNOLOGY AMITY UNIVERSITY, SECTOR- 125,
NOIDA, UTTAR PRADESH**

DECLARATION

I Ankit Dhingra, student of BCA (2022-25), hereby declare that the Summer Internship titled "Responsive Portfolio Website using HTML, CSS, and JavaScript" submitted to Amity Institute of Information Technology, AMITY UNIVERSITY, NOIDA, UP, is my original work and has been written under the guidance and supervision of Dr. Seema Rani. All the information, ideas, and concepts presented in this term paper are based on my own research, analysis and understanding of the topic. I further declare that all sources used for gathering information and references have been duly cited and acknowledged in the appropriate format. Any external sources including books, articles. Websites, and other publications have been appropriately referenced in the reference list.

I affirm that this Summer Internship represents my original work and meets the requirements set forth by Amity University for the successful completion of the course.

DATE:

(Signature)

Ankit Dhingra

(A1004822257)

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragement crown all efforts with success. I would like to thank Amity University, Sector- 125, NOIDA, UP, for giving me the opportunity to undertake this project. I would like to thank my faculty guide Dr. Seema Rani, AIIT, NOIDA, UP, who is the biggest driving force behind my successful completion of the project. She has been always there to solve any query of mine and also guided me in the right direction regarding the project. Without her help and inspiration, I would not have been able to complete the project. Also, I would like to thank my batch mates who guided me, helped me and gave ideas and motivation at each step.

(Signature)

Ankit Dhingra

(A1004822257)

BCA (2022-25)

AIIT, Amity University, NOIDA, UP

OFFER LETTER



Main Flow Services and Technologies

26 May 2025

ID- 21256

Dear, Ankit Dhingra

Domain- Web Development

Congratulations on being selected for the internship with "Main Flow". We at "Main Flow" are excited that you will join our team.

The internship will be 6 weeks, from 26 May 2025 to 04 July 2025. The internship is an educational opportunity for you hence the primary focus is on learning and developing new skills and gaining hands-on knowledge. We believe that you will perform all your tasks/projects.

As an intern, we expect you to perform all assigned tasks to the best of your ability and follow any lawful and reasonable instructions.

We are confident that this internship will be a valuable experience for you, We look forward to working with you and helping you achieve your career goals.

Sincerely,

Director – *Gauravkumar*



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+919773699074



www.mainflow.in

career.mainflow@gmail.com



COMPLETION CERTIFICATE



GUIDE CERTIFICATE

I hereby certify that the Summer Internship Report by **Mr. Ankit Dhingra**, student of BCA, Vth semester, batch of 2022-25 and Enrollment no. **A1004822126** with the title “Responsive Portfolio Website using HTML, CSS, and JavaScript” which is submitted to Amity Institute of Information Technology, Amity University, Noida, Uttar Pradesh in partial fulfilment of the requirements for the award of the degree of Bachelor of Computer Applications is an original contribution with existing knowledge and faithful record of work carried out by him under my guidance and supervision and to the best of my knowledge this work has not been submitted in part or full for any Degree or Diploma to this University or elsewhere.

(Signature)

Dr. Seema Rani

Amity Institute of Information Technology, AUUP, Noida, Uttar Pradesh

Place: Noida

AMITY UNIVERSITY
-----UTTAR PRADESH-----
Amity Institute of Information Technology
Summer Internship

Student Name: Ankit Dhingra

Enrollment No: A1004822257

Programme: Bachelor of Computer Applications

Company's Name: Main Flow Services and Technologies

Address:

Industry Guide

Name:

Designation:

Contact Number

Ph.(O) :

Mobile :

Fax :

E-mail :

Project Information

1. Project Duration : (6 Weeks)

Date of Summer Internship commencement (26/05/2025)

Date of Summer Internship Completion (04/07/2025)

2. Topic

Responsive Portfolio Website using HTML, CSS, and JavaScript

3. Project Objective

To design and develop a responsive, single-page portfolio website using HTML, CSS, and JavaScript that effectively showcases personal skills and projects.

4. Methodology to be adopted

The project follows an iterative development process involving design, coding, testing, and refinement to ensure a responsive and user-friendly final website.

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ABSTRACT

This project focuses on the design and development of a responsive, single-page portfolio website titled "**Responsive Portfolio Website using HTML, CSS, and JavaScript.**" The primary aim of the project is to create an interactive, visually appealing, and professional web presence that effectively showcases personal or professional details in a minimal and modern format.

The website utilizes core web technologies: HTML for structuring content, CSS for styling and layout, and JavaScript for smooth navigation and interactivity. Key features include a scroll-snapping effect for a seamless presentation-like experience, responsive design to ensure compatibility across a wide range of devices from desktops to smartphones, and customized navigation for intuitive access to different website sections.

Throughout the project, emphasis was placed on clean design principles, ensuring readability, simplicity, and usability. Custom fonts and subtle animations were incorporated to enhance visual appeal without compromising performance or load times. The result is a modern portfolio site that demonstrates foundational web development skills, attention to design aesthetics, and an understanding of responsive layouts and user-centered interfaces.

This project fulfills the objectives of the NTCC (Non-Teaching Credit Course) by combining technical knowledge with creative design, delivering a functional, engaging, and optimized website suitable for real-world professional use.

OBJECTIVE

The primary objectives of this NTCC project are:

- **To design and implement a modern, responsive single-page portfolio website**
Develop a website with a clean and bold aesthetic that adapts seamlessly across devices of varying screen sizes, including desktops, laptops, tablets, and smartphones.
- **To integrate HTML, CSS, and JavaScript effectively**
Demonstrate practical knowledge of core web technologies by using HTML for structure, CSS for styling and layout, and JavaScript for interactive functionality, including smooth scrolling navigation.
- **To create a professional web presence for personal or academic use**
Build a website that can showcase an individual's skills, projects, and contact information in a visually appealing and user-friendly format.
- **To ensure user-centered design principles**
Prioritize readability, intuitive navigation, and accessibility to enhance the user experience.
- **To gain hands-on experience in responsive web design**
Apply concepts of modern web design trends, including custom fonts, minimalistic layout, and smooth transitions.

TOOLS & TECHNOLOGIES USED

- **HTML5**

Used for structuring the content of the website, creating semantic elements for each section, and organizing information in a clean, logical way.

- **CSS3**

Applied for styling the website, including custom fonts, responsive layouts, colors, text shadows, scroll-snapping, and visual transitions to enhance aesthetic appeal.

- **JavaScript (Vanilla)**

Implemented to add interactivity and dynamic behaviors, such as smooth scroll navigation to different sections and resetting the page view to the homepage on reload.

- **Visual Studio Code (VS Code)**

The primary code editor used for writing, editing, and managing project files with features like live preview, syntax highlighting, and version control integration.

- **Web Browsers (Chrome)**

Used for testing and debugging the website's compatibility and responsiveness across different platforms.

- **Fonts**

Custom fonts such as Anton were utilized for headings and Impact Bold supporting text to achieve a modern, bold look.

Implementation Details

Website Structure

The website was developed as a single-page application with scroll-snapping, allowing users to navigate seamlessly between distinct sections. The main sections include:

1. **Portfolio/Home** — Features the website title and navigation menu.
2. **About Me** — Contains a brief self-introduction highlighting personal and professional details.
3. **Projects** — Presents notable projects with clear headings.
4. **Contact Me** — Provides a contact form for visitors to send messages directly.

All sections were implemented within a single HTML document, using IDs for each section and a fixed navigation bar with anchor links enabling smooth scrolling.

Navigation

A fixed navigation bar was created at the top of the page with links to each section. JavaScript was used to enable smooth scrolling to the relevant section upon clicking a navigation item. An additional script ensures the page resets to the top section when refreshed, maintaining consistent user experience.

Styling and Layout

CSS Flexbox was used extensively to center content both vertically and horizontally within each section, ensuring each segment fills the viewport completely. Scroll-snapping was implemented using CSS scroll-snap-type and scroll-snap-align properties for a presentation-like experience when navigating through sections.

The headings were styled with a bold, modern font, and subtle text shadows were added to improve readability against the background. A minimalist divider was included in the navigation to separate links clearly.

Responsive Design

Media queries were added to ensure the layout adjusts gracefully on various screen sizes, from large desktop monitors to tablets and smartphones. The flexible design prevents content overflow and maintains alignment, providing a consistent look and feel across devices.

Interactivity

JavaScript was used for:

- Smooth scrolling to sections upon clicking navigation links.
- Returning to the top section when the page reloads, enhancing user navigation flow.

These dynamic features enrich the user experience without relying on external libraries.

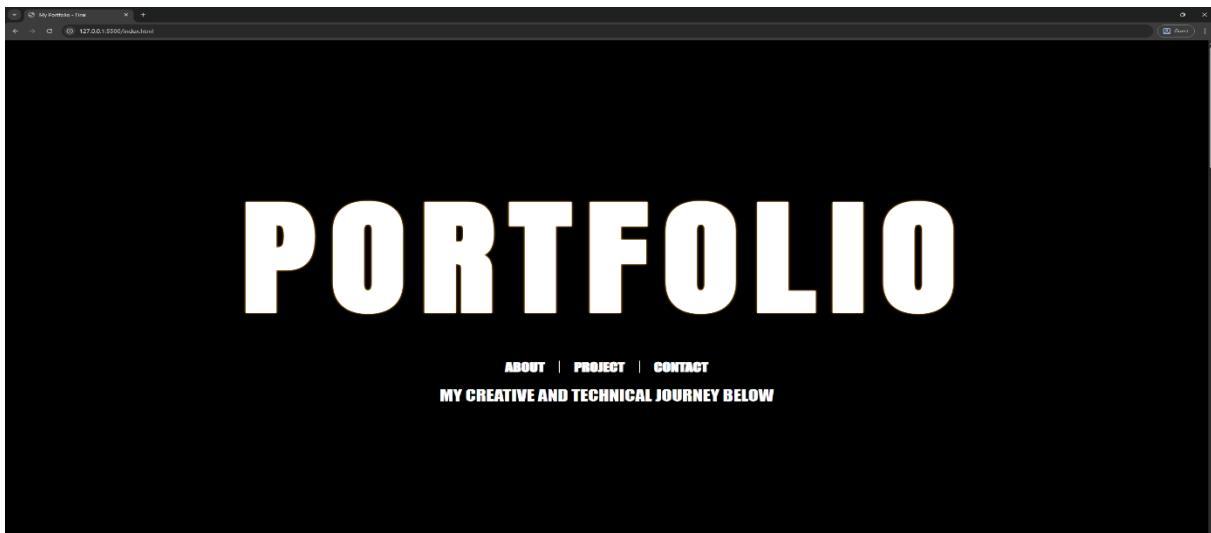
Final Touches

A modern color scheme was chosen with a black background, white text, and orange accents for borders and highlights. The visual design aims to balance minimalism with boldness, creating an impactful and professional look. Font choices and spacing were carefully adjusted for readability and aesthetics.

Screenshots & Images

To demonstrate the progress and final look of the project, screenshots of each section of the website will be included below. These images will showcase the layout, design elements, and responsiveness across different devices.

⌚ Homepage (Portfolio Section)



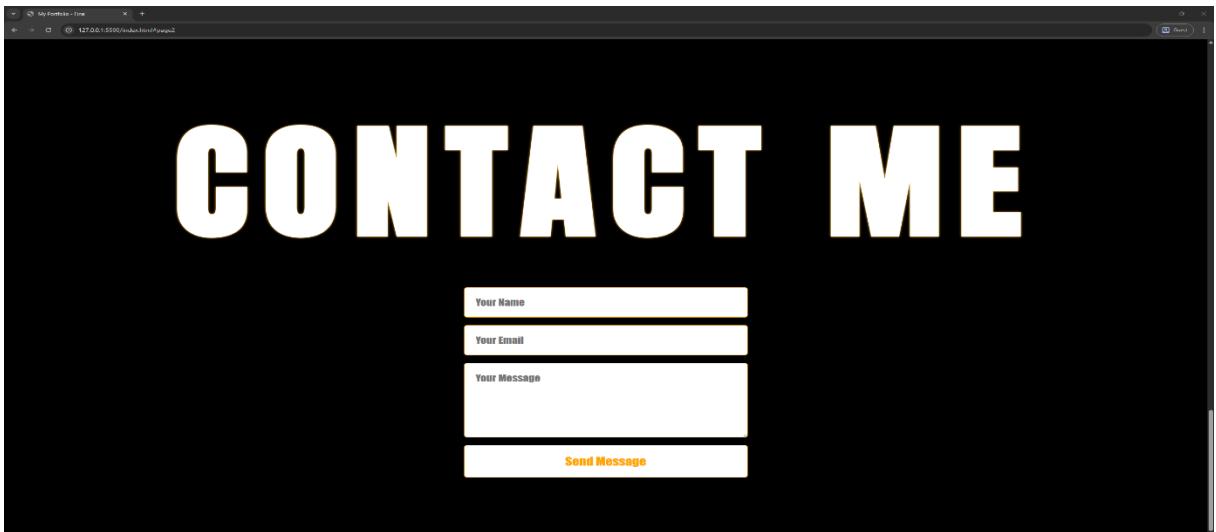
⌚ About Me Section



Projects Section



Contact Me Section



Check out the live demo at myportfolio.com or view the source code on [GitHub](https://github.com/yourusername/portfolio).

📸 Responsive View

The image displays four screenshots of a mobile website, arranged in a 2x2 grid, illustrating its responsive design across different sections. All screenshots show a black background with white text and orange highlights.

- Top Left (Home Screen):** Shows the word "PORTFOLIO" in large orange letters. Below it are navigation links: "ABOUT" (underlined), "PROJECT", and "CONTACT". A subtitle reads "MY CREATIVE AND TECHNICAL JOURNEY BELOW".
- Top Right (About Me):** Shows the words "ABOUT ME" in large orange letters. Below it is a bio: "MY NAME IS ANKIT DHINGRA. I AM A BCA STUDENT PASSIONATE ABOUT MINIMAL, RESPONSIVE WEB DESIGN WITH A BOLD AESTHETIC."
- Bottom Left (Project Section):** Shows the word "PROJECT" in large orange letters. Below it is a subtitle: "RESPONSIVE PORTFOLIO WEBSITE, E-COMMERCE LANDING PAGE, AND CREATIVE UI EXPERIMENTS."
- Bottom Right (Contact Form):** Shows the words "CONTACT ME" in large orange letters. Below it is a contact form with three input fields: "Your Name", "Your Email", and "Your Message". A "Send Message" button is at the bottom.

Challenges Faced

During the development of the responsive portfolio website, several challenges were encountered:

- **Responsive Design Adjustments**

Ensuring that the website displayed consistently across a wide range of screen sizes was challenging. Aligning elements perfectly in both desktop and mobile views required multiple iterations of CSS adjustments and testing on different devices.

- **Scroll Snapping Behavior**

Implementing smooth scroll-snapping across all sections without causing content overflow or misalignment took significant fine-tuning of CSS scroll-snap properties and section heights.

- **Font and Visual Styling**

Selecting a bold, modern font that rendered correctly on all devices and browsers proved to be tricky. Some fonts displayed differently on certain devices, requiring fallback options and testing.

- **Navigation Divider Alignment**

Maintaining perfect alignment of the divider symbols (“|”) between navigation links was unexpectedly difficult, as it varied based on font size, spacing, and browser rendering. Several adjustments were made to achieve a consistent and clean appearance.

- **Consistent Spacing**

Balancing the space occupied by headings and text in each section to make the pages feel neither empty nor cluttered required careful tuning of font sizes, line spacing, and padding.

- **Maintaining Smooth Transitions**

Creating a seamless, presentation-like experience when scrolling between sections involved tweaking both JavaScript and CSS to avoid jarring transitions and ensure a natural flow.

Despite these challenges, iterative refinement helped achieve a polished, functional, and visually appealing final product.

Conclusion

The development of the Responsive Portfolio Website using HTML, CSS, and JavaScript successfully met the objectives of the NTCC project. The website combines a bold, modern aesthetic with functional, responsive design, resulting in a professional online presence suitable for showcasing skills and projects.

Through this project, practical experience was gained in:

- Structuring content with semantic HTML,
- Styling layouts and implementing responsiveness with CSS,
- Adding interactivity and enhancing user experience with JavaScript.

The final website delivers a smooth, scroll-snapping presentation-like experience, demonstrating an understanding of user-centered design and compatibility across various devices and screen sizes. Challenges encountered during development strengthened problem-solving skills, especially in areas such as cross-device compatibility, layout alignment, and typography.

Overall, this project not only deepened technical knowledge in front-end web development but also emphasized the importance of design aesthetics and usability in creating engaging, modern websites.

References

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<https://www.w3schools.com/>
3. **Google Fonts Documentation**
<https://fonts.google.com/>
4. **Stack Overflow Discussions**
Used to troubleshoot specific layout and responsiveness issues.
5. **Visual Studio Code — Official Website**
<https://code.visualstudio.com/>
6. **Personal Experimentation & Practice Code**
Iterative code writing and debugging during the NTCC project.