

National University of Computer and Emerging Sciences



Assignment #2

for

Web Programming

Course Instructor	Ms. Mahhek Khan
-------------------	-----------------

Department of Computer Science

FAST-NU, Lahore, Pakistan

*Note: Any form of plagiarism or direct copying of code will result in an automatic **zero** for the assignment. Cheating, sharing code, or using AI Generated Code is strictly prohibited. Ensure that your work is original and adheres to academic integrity standards.

For any queries related to the assignment, you can contact the TA via email provided on Google Classroom

Question 1 (10 Marks)

1. Data Entry Page

- **Purpose:**
All the content displayed in the portfolio must be provided by the user on a preceding page.
 - **Features:**
 - Input fields to capture all necessary data including:
 - Student's name, bio, and other introductory details.
 - About Me information (profile picture, skills, interests, and detailed description).
 - Project details (title, description, image, GitHub link for each project).
 - Social media links where each link includes a "Name" and "URL".
 - An "Add Social Media" button that allows the user to add multiple social media entries.
 - A "Submit/Generate" button that, when pressed, generates the portfolio page using the entered data.
-

2. Navigation Bar (Navbar Component)

- **Features:**
 - A responsive navigation bar that adjusts to different screen sizes.
 - Contains links to major sections of the page (e.g., Home, About, Projects, Contact).
 - Implements a hamburger menu or dropdown for mobile views using `useState` to toggle its visibility.
-

3. Hero Section

- **Features:**
 - A welcoming section displaying the student's name, a short bio, and a call-to-action button (e.g., "View My Work" or "Contact Me").
 - Receives dynamic data (name and description) via props.

4. About Me Section

- **Features:**
 - A section detailing personal information, skills, and interests.
 - Customizable using props to pass in:
 - Profile picture.
 - List of skills.
 - Short description or extended biography.

5. Projects Section

- **Features:**
 - Displays at least 3 projects using a `ProjectCard` component.
 - Each `ProjectCard` should receive as props:
 - Project title.
 - Description.
 - Image.
 - GitHub link.
 - The projects data should be stored in an array in the parent component and mapped over to render multiple `ProjectCard` components.
 - **Draggable Cards:**
 - The project cards should be draggable, enabling users to rearrange them (move up, down, etc.). External libraries (e.g., `react-draggable` or `react-beautiful-dnd`) can be used to implement this functionality.
 - **Dynamic Data Fetching:**
 - It is mandatory to fetch project data dynamically (e.g., from a drive or GitHub).
 - Use `useEffect` to retrieve this data and update the Projects section automatically as changes occur.

6. Contact Section

- **Features:**
 - A contact form with input fields for name, email, and message.
 - Utilizes `useState` to manage the form's input values.
 - Uses `useEffect` to display a success message upon successful form submission.
 - Search google for linking a form with your website.

7. Footer

- **Features:**
 - A simple footer that includes social media links (e.g., LinkedIn, GitHub, Twitter).
-

8. Extra Features

8.1 Dark Mode Toggle

- **Features:**
 - Implement a button using `useState` that toggles between light and dark themes.

8.2 Dynamic Data Fetching for Projects

- **Features:**
 - Mandatory dynamic fetching of project data.
 - Data can be fetched from external sources such as Google Drive or GitHub.
 - Utilize `useEffect` to fetch and update the Projects section as changes occur.

8.3 Animated Elements

- **Features:**
 - Enhance user experience by integrating CSS animations or a library such as Framer Motion for smooth transitions and interactive feedback.
-

Submission Guidelines:

- Submit a zip folder for each question in the format (21L-XXXX). Also upload your code to github and share the link of the repository.
 - API keys (if used) should be mentioned in comments within the code.
 - The code should be properly commented and structured for better understanding.
-

Allowed Technologies: ReactJS, CSS, TailwindCSS, Bootstrap, REST API

----- Good Luck! -----