INFORMATION
TECHNOLOGY
UNIVERSITY

Assignment 1

Personal Portfolio Website Development

topic: Web Development with Bootstrap 5

Due Date: Wednesday, 05 March 2025

Submission: Google Classroom (ZIP file) + GitHub Repository (Public Link)

Problem Statement

Create a **responsive personal portfolio website** using HTML, CSS, and Bootstrap 5 that showcases your skills, education, and projects. The website must implement modern design principles, Bootstrap components, and best practices while including all required features below.

Requirements

Core Features (Mandatory)

1. **Structure & Layout**
   - Semantic HTML5 markup
   - Bootstrap Grid/Flexbox for layout
   - Responsive design (mobile-first approach)
2. **Components**
   - Navigation bar with links (Home, Education, Projects, Contact)
   - Sidebar with profile details (visible on desktop, collapses on mobile)
   - Cards for projects/skills
   - Progress bars for skill levels
3. **Content Sections**
   - **Home:**

     Circular profile picture with CSS animation (e.g., hover scale/rotate)
     Name, designation, and career summary
   - **Education:**

     Fancy Bootstrap table with .table-striped and .table-dark
   - **Projects:**

     Cards with hover effects (use Bootstrap utilities for shadows)
   - **Contact:**

     Form with fields: Name, Email, Message (Bootstrap validation)
     Success/failure alerts on submission(Optional event handling)

4. **Styling**
   - Custom CSS animations/transitions (e.g., fade-in, hover effects)
   - Bootstrap's color system (e.g., .bg-primary, .text-danger)
   - Themed components (buttons, cards)

5. **Best Practices**
   - Clean file structure (separate CSS/JS files)
   - Responsive images (use .img-fluid)
   - Comments in code
   - Cross-browser compatibility

Advanced Features (Optional for Bonus)

- **Theme Toggle:** Implement light/dark mode with CSS variables.
- **Interactive Elements:** Animated progress bars on scroll.
- **Git Hygiene:** Meaningful commit messages and branches.

Technical Specifications

1. **Bootstrap 5 Features to Use:**
- Navbar (responsive with toggler)
- Cards, Alerts, Progress Bars
- Grid System (Uneven columns for sidebar + main content)
- Utilities (Spacing, shadows, positioning)
- Form Validation
2. **CSS Requirements:**
- Transformations (e.g., transform: rotate(), scale())
- Animations (e.g., @keyframes, transition)
- Flex/Grid for custom layouts

Submission Guidelines

1. **Google Classroom:**
- ZIP file named [YourName]_Portfolio.zip containing:
- index.html
- styles.css
- script.js
- Assets folder (images)
2. **GitHub:**
- Public repository named portfolio-2025
- Meaningful commit messages (e.g., "feat: add contact form")
- README.md with:
- Project description
- Screenshots
- Live demo link (GitHub Pages)

Tips:

- Test responsiveness using Chrome DevTools.
- Use Bootstrap's documentation for components.
- Validate HTML: https://validator.w3.org/.