



De La Salle University - Manila

Gokongwei College of Engineering

Department of Electronics and Computer Engineering

**Student Website Portfolio**

Submitted to:

Engr. Jose Antonio Catalan

In Partial Fulfillment of

The Requirements for the subject, Online Technologies Laboratory

Submitted by:

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LBYCPG3 – EQ1

I, Kenan A. Banal, hereby declare that the code presented in this project is the result of my own work and effort. I have not plagiarized, copied, or borrowed any part of the code from other sources without proper attribution. All code, algorithms, and documentation included in this project are original and created by me, except where explicitly noted otherwise.

I acknowledge that the use of others' work without proper acknowledgment is a serious violation of academic and professional integrity. In compliance with the relevant academic and institutional guidelines, I have cited all external sources and references used in the development of this project.

By signing below, I affirm that this project is an honest representation of my work and that I have adhered to all ethical standards required.

A handwritten signature in black ink, appearing to read 'Kenan A. Banal', written in a cursive style.

Signature: Kenan A. Banal

Date: 8-9-2024

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# Introduction

HTML, CSS, and JavaScript form the core technologies of making websites. Hypertext Markup Language or better known as HTML gives a structural framework of a webpage, defining elements such as headings, paragraphs, images, and links. On the other hand, Cascading Style Sheets or well known as CSS improves this structure by styling and positioning these elements, creating visually appealing and responsive designs that adapt to various devices. Likewise, JavaScript which is similar to the Java programming language adds more interactivity and new dynamic functions to web pages, allowing for features such as form validation of users and animations of user interface.

Advanced tools and techniques further enhance web development capabilities. AJAX allows asynchronous server requests, allowing dynamic content updates without reloading the whole page, resulting in a smoother user experience. JSON facilitates data exchange between a server and a client due to its simplicity and compatibility with JavaScript. Libraries and frameworks like jQuery, React, and Node.js streamline development processes. jQuery simplifies HTML document manipulation and AJAX interactions, React helps build efficient, high-performance user interfaces with its component-based architecture, and Node.js allows JavaScript to be used for scalable server-side development, especially for real-time applications.

## Project Overview

In this paper students must meet to successfully complete their websites. Each student is tasked with developing a unique website that reflects their personal and professional identities. The website must include a personal profile page, password-secured pages, a photo album with a slideshow feature, a portfolio of CPE-relevant accomplishments, technical articles with multimedia elements, and professional services pages. These requirements are intended to challenge students to integrate various online technologies, such as AJAX, JSON, jQuery, and Google Charts, into their websites. Additionally, the project emphasizes the importance of user interface design, with strict guidelines on the use of Bootstrap for theming and the inclusion of JavaScript or jQuery for functionality. Students are also required to document their project thoroughly and present a video demonstration of their website's features.

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Bootstrap for theming and the inclusion of JavaScript or jQuery for functionality. Students are also required to document their project thoroughly and present a video demonstration of their website's features.

## Objectives

### General Objectives

- To demonstrate the ability to use selected online technologies to develop a website conforming to a set of requirements.

### Specific Objectives

- To create a personal element such as a personal profile, password secured pages, and photo album
- To design a professional element including portfolio page, technical articles, and professional services
- To utilize AJAX, Node and React JavaScript code in the website

## Summary Table

Tr Task	Status	JavaScript Type	Tr Remarks
Profile Page	Completed	AJAX	About me
2 Password Secured Pages	Completed	AJAX	Banking and Personal Picture page
Photo Album with 10 images	Completed	AJAX	10 images used
Portfolio Page	Completed	NODE	1st node.js
Article 1	Completed	NODE	youtube video and 2nd node.js
Article 2	Completed	AJAX	bar graph
Article 3	Completed	AJAX	pie and line graph
Article 4	Completed	AJAX	technical calculator
Job Order Form	Completed	AJAX	Remarks
File Upload page	Completed	NODE	3rd node.js
Article 5	Completed	REACT	table list
Batch script file	Completed	batch script	runs all three javascripts
At least one drop-down menu	Completed	AJAX	professional part

## Website Technical Requirements

- ☒ ~~The website look/theme should be generally set by Bootstrap.~~
- ☒ ~~Any functionality requiring javascript may use native javascript or jquery unless explicitly stated in an item in this set of project guidelines.~~
- ☒ ~~No standard database (mysql, postgres, etc) must be used.~~
- ☒ ~~Unless, otherwise specified, Php or any other programming languages besides javascript or related libraries can be used.~~
- ☐ Each web page must have the same look/theme and should include a header, footer, navigation, main content sections at the minimum.
- ☒ ~~There should be at least one drop-down menu.~~
- ☒ ~~One or more webpages should incorporate tooltips.~~