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Architecture of Microcomputers

CC201

(Introduction to Computing)

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BSCS 1-A

Submitted to:

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November 2024



Overview

This documentation outlines the content of an educational website focused on helping to teach microcomputer architecture and components in a fun and interactive way. The site features an intuitive interface designed to enhance user engagement while providing comprehensive information about computer hardware.

Site Structure

The website is organized into five main HTML pages:

- **index.html**: The homepage that introduces users to the site.
- **components.html**: A detailed breakdown of computer components.
- **iodevices.html**: Information on input/output devices (content provided in the attached document).
- **buses.html**: Details about bus systems (content provided in the attached document).
- **aboutus.html**: Profiles of team members.



Key Features

- **Parallax Background Effect:** Provides an extra layer of interactivity to the homepage.
- **Easy Navigation:** Allows users to explore content easily.
- **Animated Mascot Character:** Engages users with a playful character named "PHIL.", short for "Personalized Helpful Interactive Learner"
- **Background Audio:** Adds an extra layer of coziness to the experience.
- **Responsive Design:** Ensures usability across various devices.

Page Descriptions

Homepage (index.html)

The homepage features:

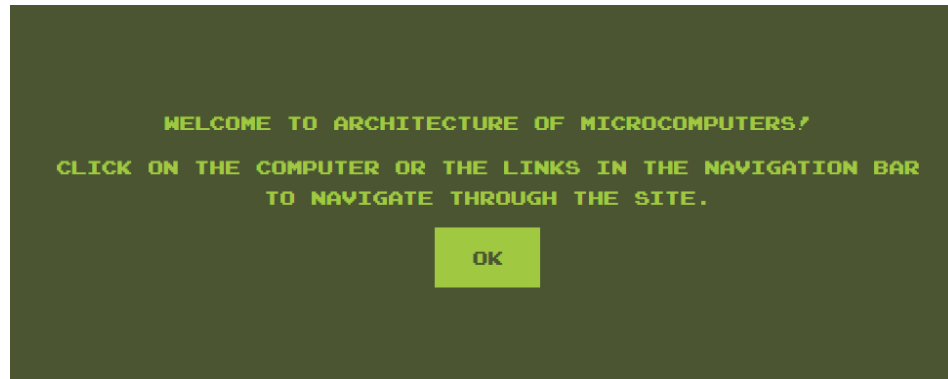
- A playful mascot character, "P.H.I.L."



Concept art for our mascot, (PHIL)



- A welcome popup for new visitors.



Our welcome popup

- Navigation links to other sections of the site.



- Audio controls for background music.



- A parallax scrolling effect that adds a dynamic visual experience.

Components Page (components.html)

This page provides detailed educational content about various computer components, including:

- CPU
- RAM
- Motherboard
- Storage



- **GPU**

Each component section includes:

- Descriptive text explaining its function and role in a microcomputer.
- Representative images for visual reference.

An interactive sidebar allows for quick navigation between components.

I/O Devices Page (iodevices.html)

This page covers essential input/output devices, including:

- **Keyboard:** Describes its function and connection methods.
- **Mouse:** Explains how it interacts with graphical elements.
- **Monitor:** Details how it displays visual output from the CPU.
- **Speaker:** Discusses audio output capabilities.

Buses Page (buses.html)

This page explains the types of buses within a microcomputer, detailing:

- **Data Bus:** Transfers information processed by the CPU to/from different components.
- **Address Bus:** Specifies memory locations for data access.
- **Control Bus:** Manages operations and data flow within the system.

About Us Page (aboutus.html)

Profiles three team members with humorous descriptions, complete with pixel art renditions of the three. including:

- **Raigne Kenzi Chua**
- **Ivan Ray Salarza**
- **Xymex Miralles**

JavaScript Interactivity (script.js)



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The website employs vanilla JavaScript for interactivity, featuring:

- Audio management for background and startup sounds.
- Mute/unmute functionality.
- Parallax mouse movement effects.
- Animated transitions during navigation.

Technical Details

The site utilizes:

- **CSS** for styling and animations, ensuring a visually appealing layout.
- **Responsive design principles** to adapt to various screen sizes.

Design Philosophy

The website adopts a lighthearted approach to technical education, using playful animations, engaging audio, and an animated mascot to make learning about microcomputers enjoyable and accessible.



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Potential Improvements

Future enhancements could include:

- More detailed technical explanations for advanced users.
- Additional interactive learning components to deepen user engagement.
- Improved cross-browser compatibility for wider accessibility.
- Enhanced accessibility features to accommodate all users.