

# Vortex Games

## A Web-Based Gaming Platform Project

### Project Overview

**Vortex Games** is a web development project created to demonstrate the foundations of web architecture. Instead of relying on complex backend frameworks, this project utilizes **pure JavaScript logic** to simulate database functionality, managing game data and user interactions directly within the client side.

This project serves as a practical application of our studies in web technologies, focusing on logic building and structured layout design.

### Team CC - The Developers

Department of Cyber Security Aror University of Art, Architecture, Design and Heritage

Batch 2025 | Section B

Role	Name
Team Leader	Abdul Rafiu
Member	Ayaan Ahmed
Member	Furqan Haider

### Technology Stack

We built this project from scratch using core web technologies:

#### Frontend & Logic

- **HTML5:** Used for the semantic structure of the web pages.
- **CSS3:** Custom styling for layout, colors, and the "Vortex" aesthetic.
- **JavaScript (Vanilla):**
  - Implemented a **logic-based local database** system.
  - Utilizes if/else conditional structures to handle data retrieval and page routing.
  - DOM manipulation for dynamic user interaction.

#### Development Tools

- **Visual Studio Code (VS Code):** Primary code editor.
- **Notepad:** Used for quick edits and raw code review.

### How It Works

Unlike traditional apps that query a SQL database, **Vortex Games** uses a clever implementation of JavaScript control flow:

1. **Data Simulation:** Game details and information are stored within the JavaScript logic.

2. **Conditional Logic:** When a user searches for a game or clicks a category, the system runs through a series of if/else checks to determine which content to display.
3. **Fast Execution:** Since data is handled locally in the browser, interactions are instant.



## How to Run

1. Download the project folder (or clone the repo).
2. Locate the main file: index.html.
3. Double-click to open it in any modern web browser (Chrome, Edge, Firefox).
4. Enjoy browsing Vortex Games!

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