# **Capstone Project Proposal**

## **V.G (Video Game) Direct**

### **Abstract**

V.G Direct aims to create a centralized platform for gamers to access detailed information about video games and contribute their own insights. Leveraging React, Node.js, and third-party APIs, the project will focus on delivering a seamless, user-friendly experience for both research and community engagement.

### **Problem Statement**

Finding accurate and comprehensive information about video games, particularly across different platforms and eras, can be challenging. Additionally, no single platform combines reliable factual data with a vibrant, user-driven community.

### **Project Goals and Objectives**

This project will achieve the following objectives:  
- Provide a centralized hub for factual and user-generated video game content.  
- Create an engaging community-driven experience through forums and reviews.  
- Deliver a user-friendly interface for sorting, filtering, and exploring video game data.

### **Scope and Constraints**

The scope of the project includes building a web-based platform with the following features:  
- Community forums and rating system for user interaction.  
- Video game details page with comprehensive factual information.  
- Sorting and filtering options for browsing games.  
  
**Constraints:**  
- The project will focus on web-based delivery; mobile apps may be considered in future iterations.

### **Technical Approach**

The project will leverage the following technologies:  
- Frontend: React for building a dynamic and responsive user interface.  
- Backend: Node.js with Express for server-side logic.  
- Database: PostgreSQL or MongoDB for managing data.  
- APIs: RAWG Video Games Database API for game data.

### **User Flow and Features**

The website will provide a seamless and intuitive user flow:  
1. Home Page:  
 - Greets users and prompts them to log in or sign up.  
 - Users can bypass this by navigating directly to other sections using the navigation bar.  
2. Game Details Page:  
 - Displays factual information about the selected game.  
 - Allows users to submit a rating and write/view reviews

3. Video Games Directory:  
 - The main feature of the website.  
 - Users can browse a comprehensive list of games, sorted or filtered by preferences (e.g., platform, release year, rating).  
 - Clicking on a game leads to its Game Details Page.

4. Community Forum:  
 - Users can browse or join discussions about specific video games.

### **Project Scope**

This project will strike a balance between front-end and back-end development:  
- The \*\*back-end\*\* will handle heavy lifting, including data fetching, user management, and API integration.  
- The \*\*front-end\*\* will provide a visually appealing and user-friendly interface, ensuring an engaging experience.

### **Conclusion**

This project will bring together the gaming community in a centralized platform, offering both informative content and interactive features. By combining modern web development technologies, a robust API, and a well-thought-out design, V.G Direct aims to become a valuable resource for gamers everywhere.