Proposal for A.C.E.S. Retro Game Store

Team Name: A.C.E.S.

Team Members:

- Nate
- Farid

Business Opportunity/Problem:

The rising prices of retro games and consoles online have created a significant barrier for nostalgic gamers and collectors alike. A.C.E.S. aims to address this challenge by providing a platform that tracks live data of old games and consoles being sold. Our goal is to empower users to find the best prices, access links to purchase affordably, and delve into the rich history of their favorite games.

Users:

- Retro gamers and collectors seeking affordable options

- Individuals interested in the history of classic games and consoles

- Bargain hunters looking for the best deals

High Level User Requirements:

Real-Time Price Tracking:

- Users can search for specific games or consoles and view the live prices from various online platforms.

- Option to set price alerts for desired items.

Product Information:

- Detailed information on each game or console, including release year, developer, genre, and historical context.

- User reviews and ratings to aid in decision-making.

Affordable Purchase Links:

- Direct links to online stores where the item is available at the lowest price.

- Categorized lists of affordable options and deals.

History Section:

- Engaging articles, videos, and podcasts on the history and impact of classic games and consoles.

- Featured stories about developers, industry trends, and memorable moments in gaming history.

User Profiles:

- Personalized accounts for users to save favorite games, set preferences, and track their collections.

- Community forums and discussion boards for users to connect, share tips, and swap items.

<u>Proposed Solution</u>:

Our solution will encompass both technical and non-technical approaches to create a comprehensive retro gaming experience.

Technical Approach:

Frontend Development:

- Responsive website design for seamless user experience across devices.

- React.js for dynamic and interactive user interfaces.

Backend Development:

- ASP.NET Core with C# for server-side scripting.

- Implementation of RESTful APIs for communication between frontend and backend.

- User authentication and authorization for secure access.

Database Management:

- SQL Server for reliable and scalable data storage.

- Storing game details, user profiles, price histories, and community interactions.

Live Data Integration:

- Integration of web scraping tools to fetch real-time pricing information.

- Automated scripts to update price data at regular intervals.

Non-Technical Approach:

Content Curation:

- Collaborations with retro gaming enthusiasts and historians to create engaging articles and videos.

- Regularly updated blog section featuring game reviews, industry news, and retrospectives.

Partnerships:

- Establishing affiliate partnerships with online retailers to provide direct purchase links.

- Collaborating with retro gaming stores for exclusive discounts and promotions.

User Engagement:

- Social media campaigns to promote new arrivals, featured games, and community events.

- Hosting online tournaments, trivia nights, and live streams to connect with users.

SQL Database Architecture:

Tables:

Games Collection

- Game ID
- Title
- Release Year
- Developer
- Genre
- Description
- Average Price
- Historical Price Data

Consoles Collection

- Console ID
- Name
- Release Year
- Manufacturer
- Description
- Average Price
- Historical Price Data

Users

- User ID
- Username

- Email
- Password (encrypted)
- Favorite Games
- Purchase History
- User Preferences

Community Interaction

Reviews Collection

- Review ID
- User ID
- Game/Console ID
- Rating
- Comment
- Timestamp

Forums Collection

- Thread ID
- User ID
- Title
- Content
- Comments
- Timestamps

By combining our technical expertise with a deep passion for retro gaming, A.C.E.S. aims to revolutionize the way enthusiasts discover, purchase, and cherish classic games and consoles. Our platform will not only offer affordability but also serve as a hub of knowledge and community for retro gaming aficionados worldwide.