Project Plan: Game Tribe

Team Roles

1. Iteoluwakiishi Osomo (iaosomo@iastate.edu)
    - Lead on Shopping Cart System
    - Lead on Checkout Process
    - Lead on Admin Dashboard & Management
2. Fuchinanya Akpuokwe (fuchicay@iastate.edu)
    - Lead on User Authentication System
    - Lead on Game Catalog & Search
    - Lead on User Profiles

Technology Stack

- Frontend:
    - React (with hooks for state management)
    - React Router for navigation
    - Axios for API calls
    - Bootstrap or Material UI for responsive design
    - Tail wind CSS/SCSS for custom styling
- Backend:
    - Node.js runtime environment
    - Express.js framework for API routes
    - MongoDB for database storage
    - JSON Web Tokens (JWT) for authentication
- Development Tools:
    - GitLab for version control and collaboration
    - Figma for wireframing and UI design
    - Postman for API testing
    - Visual Studio Code as a primary IDE
    - Trello for task tracking

Key Features

1. User-Facing Features:

    - Responsive Homepage with featured games carousel
    - Interactive Game Catalog with search and filtering
    - Detailed Game Pages with descriptions and reviews
    - Shopping Cart System with persistence
    - User Authentication with secure login/signup
    - User Profiles showing purchase history and wishlists
    - Community Features (reviews, ratings, wishlists)
    - Multi-step Checkout Process with payment options
2. Admin Features:
    - Comprehensive Admin Dashboard
    - Game Management (CRUD operations)
    - User Management tools
    - Review Moderation interface

Expected Challenges

1. Technical Challenges:
    - Implementing secure user authentication
    - Managing state across complex components
    - Creating responsive designs for all screen sizes
    - Establishing efficient database queries and relationships
    - Handling API integration between the frontend and the backend
2. Project Management Challenges:
    - Maintaining consistent code quality across team members
    - Meeting timeline constraints while delivering all features
    - Balancing coursework with development time
    - Testing across different browsers and devices
    - Coordinating backend and frontend development
3. Future Considerations:
    - Scalability for potential future expansion
    - Optimization for performance with large datasets
    - Implementing real payment processing (currently simulated)