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BlackJack

EECS 2311: Software Development Project

Iteration 0: Initial Planning

Blackjack Web Application Vision Statement

The Blackjack Web Application is a user-friendly platform where users can play the well-known card game blackjack in a digital setting. The program will be made with casual gamers and card game fans in mind, offering a smooth gaming experience with features that guarantee a responsive and error-free experience.

Crucial gaming features like dealing cards, score calculation, chip and money betting, and applying precise Blackjack rules will all be included in the program. In order to enhance the user experience, this program will also have improved features including customizable decks and tables, an interactive tutorial for novices, and a leaderboard that tracks and shows results in real time.

Casual players looking for enjoyment and a practical approach to play Blackjack without actual cards or opponents will be the main users of this application. In order to ensure accessibility and fun for all users, the secondary users include amateurs who want to hone their Blackjack strategy in a risk-free setting.

To provide safe access to the game, user authentication will be incorporated into the Blackjack Web Application's pre-release version. This feature will guarantee a smooth and customized gaming experience by enabling users to create unique profiles and monitor their progress. The application will also offer the essential elements, like a multiplayer option where players can compete in real time with friends, a single-player game with an Al dealer for casual play, and progress tracking with comprehensive statistics and achievements, to enhance the gaming experience.

Advanced features will be added to the application in future releases to improve the game experience. These could include enabling users to invite others to play directly and share their accomplishments on social media sites like Facebook and Instagram. utilizing AI to provide a tough and individualized experience by modifying its skill level in response to the player's performance. Increasing accessibility by releasing an iOS and Android mobile version of the game.

The goal of the Blackjack Web Application is to preserve the integrity of the traditional card game while providing a fun and unforgettable experience. The application serves a broad audience by bringing the traditional card game to a digital environment, including both casual players and fans of Blackjack. User reviews, retention rates, and engagement indicators like the quantity of games finished, active players, and leaderboard activity will all be used to gauge success.

Big User Stories for Blackjack Web Application

User Account Management

As a user, I want to register, login
and edit my profile.

Priority: fligh Cost: 4 Days

Black jnck Gamplay Management

At a player, I want to play Blackjack
with traditional enter.

Priority: thigh

Cost: 3 days

Leaderboard and Statistics

As a player, I want to view my
personal statistics and a leaderboard.

Priority: Medium

Cost: Zdays

Multiplayer and Game Modes

As a player, I want to join
multiplayer tables, that and compete

with others.
Priority: High

Cost : 5 days

Chips and Viktuel Currency Management

As a player, I want to manage

my virtual currency (chips), to place

bets and track my salarce.

Priority's Medium

Cost: 4 days

Security and Fair Play

As a player, I want to play in

Seeme environment, where my date is

protected and the game is fair.

Priority: Migh

1: User Account Management

- The ability to register, log in, and edit profiles should be available to users.
 Password recovery, profile modification, and authentication should all be supported by the system.
- Priority: High Cost: 6 days

2: Blackjack Gameplay Management

- Users should be able to play Blackjack using the conventional rules, which include betting, card dealing, Al dealer for single-player mode, and winner determination.
- Priority: High Cost: 10 days

3: Leaderboard and Statistics

- The system ought to monitor game data and show player performance-based leaderboards. It should be possible for players to see and compare their own statistics.
- Priority: MediumCost: 5 days

4: Multiplayer and Game Modes

- Real-time multiplayer gameplay should be supported by the system, enabling users to join tables, communicate with one another through chat, and engage in competition.
- Priority: High Cost: 12 days

5: Chips and Virtual Currency Management

- To wager, players should have virtual currency, such as chips. The system ought to monitor chip balances, permit transactions, and provide daily incentives.
- Priority: Medium Cost: 7 days

6: Security and Fair Play

• To guarantee fair play, stop cheating, and safeguard user data, the system should have security features.

Priority: High Cost: 8 days

Iteration 1 Detailed user stories

Different players

Create 2-3 players and a dealer

which will have similar attributes

Provity: High

Cost: 2 days

Card animations

Generate animations when "hitting" a card

Priority: Low Cost: 1 day

Different hands

Organize the game to count hards and calculate who won each round.

Property: High

Cost: 2 days

Be+4 mg

Crente opportunity to bet high or low in each round

Property: Medium

Cost: 3 days

Cards and deck

Organize the deck to be shuffled when starting a round.

Provity: High

Cost: | day

Link to the Interview:

https://www.youtube.com/watch?v=wNUMdlqBrlw