





Sej Online

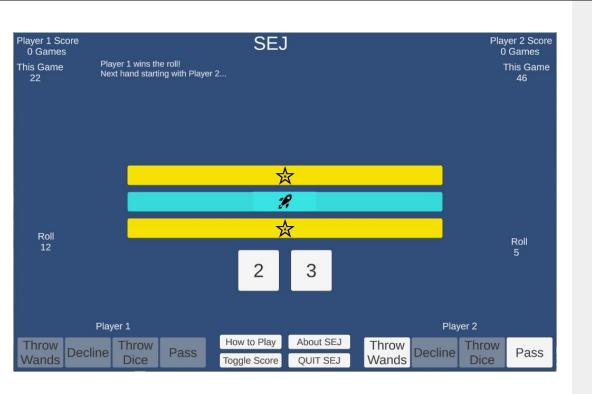
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Problem





- UI lacks critical game information
- No persistent scorekeeping
- Only supports local multiplayer



Our Solution



1 Implement
Sej Rules

3. Network Connected
Two-Player Mode

Improve

Craphics and
UI

User Accounts w/
Cumulative Score
Keeping



Solution Continued



1.



2.

Implement Sej Rules

- In-game mechanics: dice rolling, wand passing, declining a turn
- Point system
- Key information such as whose turn it is, who is starting the next hand

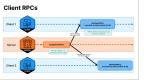
Improve Graphics and UI

- Animations for in-game actions
- Improved UI via Unity assets
- Additional artwork and graphics/effects

Network Connected Two-Player Mode

3.

- Implemented through Unity Netcode
- Netcode allows for multiplayer games that can be search and played over servers



User Accounts w/ Cumulative Score

4.

Keeping

- SQLite database integration for user and account information
- Other information like cumulative score keeping will also stored



Functional Requirements



MVP

- Sej Rules Implemented
- Network Connected two-player mode
- Simple but attractive UI
- Persistent cumulative
 score-keeping for opponents

Stretch Goals

- Tournament Play
- Side-by-side play
- AI opponents
- 3D game graphics & animation
- Audio
- Multi-platform



Non-Functional Requirements



Performance

- Engine Capabilities
- Network Search times
- Security

Environmental

- Legality
- Accessibility



Risks



Risks Identified

- No Internet Connection
- Game Server Goes Down
- Corruption of Database
- Support/Compatibility of Utilized Resources
- Users with Insufficient Hardware
- Possible Seizures for People with Epilepsy





PHOTOSENSITIVITY WARNING

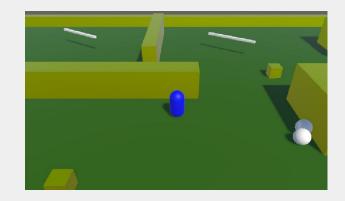
A small percentage of people may experience seizures when exposed to certain lights, patterns or images, even with no history of epilepsy or seizures.

PRESS ANY BUTTON TO STAF



Feasibility









Project Feasibility

- Game engines allow for small scale teams to develop large scale products, rapidly
- Simple database solutions to store user data integrated with engine
- Networking built in natively with Netcode



Plan for development









Summary



A version of Sej that everyone <u>wants</u> to play

A version of Sej that everyone <u>can</u> play

A version of Sej that everyone enjoys playing