Workshop 1

Ana María González Hernández - <u>anagonzalezhe@unal.edu.co</u>
Jose Arturo Herrera Rivera - <u>joherrerar@unal.edu.co</u>
Mateo Becerra Porras - <u>mabecerrap@unal.edu.co</u>
Manuel Alejandro Navas Bohórquez - <u>mnavas@unal.edu.co</u>
Daniel Felipe Ahumada Hernandez - <u>dahumada@unal.edu.co</u>

Teacher:

Carlos Andres Sierra Virguez



Universidad Nacional de Colombia
Faculty of Engineering
Department of Systems and Industrial Engineering

User Stories

Role: User

User Sign Up

User Story

As a gambler

I want to be able to register on the platform

So that I can have a user account

Acceptance Criteria

Given that the gambler has entered the application

When they want to register

Then they should have access to an interface to fill out the required information

User Log In

User Story

As a gambler

I want to be able to log in to the platform

So that I can access the games

Acceptance Criteria

Given that the gambler has entered the application

When they want to play

Then they should have access to an interface that allows them to enter the game area

User Password Recovery

User Story

As a gambler

I want to reset my password

So that I can recover access to my account if I forget it.

Acceptance Criteria

Given the gambler is on the login page,

When they click the "Forgot Password" link and enter their registered email address,

Then the system should send a password reset link to that email.

Given the gambler receives the reset link,

When they click it and set a new password,

Then the system should update their credentials and allow them to log in again.

User Profile

User Story

As a gambler

I want to be able to change my profile picture and username

So that I can personalize my profile

Acceptance Criteria

Given that the gambler has entered the profile interface

When they want to change their profile picture or username

Then they should have an interface to make those changes

User Credits

User Story

As a gambler

I want to be able to see how many credits I have

So that I know how much I can bet

Acceptance Criteria

Given that the gambler has entered the home interface

When they want to check their available credits

Then there should be a visible section showing their current credit balance

Betting on Roulette

User Story

As a gambler

I want to place bets on specific numbers or colors in the roulette

So that I can participate and potentially win credits

Acceptance Criteria

Given the gambler is in the roulette game interface

When they select a bet amount and choose numbers, colors, or ranges

Then the system should register the bet and deduct the credits accordingly

Roulette Spin and Results

User Story

As a gambler

I want to see an animated spin of the roulette wheel

So that I can visualize the game outcome in real time

Acceptance Criteria

Given the gambler has placed a bet

When they start the roulette spin

Then an animation should display the wheel spinning and reveal the winning number and color

Start Slot Game

User Story

As a gambler

I want to spin the slot machine reels

So that I can try to win credits based on the symbol combinations

Acceptance Criteria

Given the gambler has enough credits

When they press the "Spin" button

Then the reels should spin and display a random set of symbols, determining win or loss

Prizes and Winning Combinations in Slots

User Story

As a gambler

I want to know the winning symbol combinations and payouts

So that I understand how my winnings are calculated

Acceptance Criteria

Given the gambler is in the slot machine interface

When they access the "Pay Table" option

Then the system should show all winning combinations and their respective rewards

Betting History

User Story

As a gambler

I want to view a detailed history of my bets and results

So that I can track my performance and manage my credits better

Acceptance Criteria

Given the gambler is logged into their account

When they open the "Bet History" section

Then the system should display the date, game type, bet amount, and result of each play

Betting History

User Story

As a gambler

I want to log out of my account

So that I can ensure my personal information and balance remain secure.

Acceptance Criteria

Given the gambler is logged into their account

When they click the "Log Out" button,

Then the system should close their session and redirect them to the home page.

Role: Administrator

Admin Credit Balance

User Story

As an Administrator

I want to modify the gambler's credit balance

So that I can add or remove credits according to the platform's policies

Acceptance Criteria

Given the administrator is in the admin dashboard,

When they select a gambler's account and choose to add or remove credits

Then the system should update the gambler's balance accordingly and log the change in the system records

Admin Manage Users

User Story

As an Administrator

I want to manage gambler accounts (suspend, delete, or edit profiles)

So that I can maintain platform integrity and user security.

Acceptance Criteria

Given the administrator is in the admin dashboard,

When they select a user and choose an action (suspend, delete, or edit),

Then the system should apply the corresponding changes to that account.

System Statistics Dashboard

User Story

As an Administrator

I want to view global system statistics

So that I can monitor the platform's performance and gambling activity.

Acceptance Criteria

Given the administrator is in the admin dashboard,

When they open the "Statistics Dashboard,"

Then the system should display metrics such as number of gamblers, total bets placed and total winnings.

Functional Requirements

Server Connection Establishment

Description: The system must allow the server to establish a real and stable network connection to manage communication with clients.

Client Connection Handling

Description: The server must be able to receive client connections from any IP address, ensuring accessibility and flexibility for players.

Start a New Game Session

Description: The server must allow authorized users to start a new game session, initializing all necessary variables and configurations.

End a Game Session

Description: he server must allow the termination of a game session, storing the results and updating the user balances accordingly.

Display Game Events and Client Actions

Description: The server must display in real time the events and actions performed by clients, including bets, wins, and disconnections.

User Connection to the Server

Description: The system must allow users to connect to the main server securely, maintaining session integrity during gameplay.

Access to Main Application Interface

Description: The system must provide users access to the main interface of the casino application, where they can interact with available games and services.

Account Creation

Description: The system must allow new users to create personal accounts by entering their information (e.g., email, username, and password).

Non-Functional Requirements

System Performance

Description: The system must respond to user actions (such as placing bets or spinning the roulette) in less than 2 seconds, even under high user load.

Security

Description: All user information, including credentials and betting history, must be securely stored and transmitted using encryption protocols (e.g., HTTPS and SSL/TLS).

Availability

Description: The casino server must maintain an uptime of at least 99.5% to ensure continuous access for users.

Scalability

Description: The system must be able to support an increasing number of simultaneous users without degradation in performance

Usability

Description: The interface must be intuitive and easy to use, allowing users to access the main features with minimal navigation effort.

Maintainability

Description: The system architecture must be modular, enabling updates or bug fixes without affecting ongoing game sessions.

Compatibility

Description: The system must function correctly across different operating systems (Windows, macOS, Linux) and major browsers (Chrome, Edge, Firefox).

GitHub: https://github.com/Alejonavas24/Ingesoft2-2025