Team3 Blackjack

Description

This website allows users to play a card game. Users need to register first in order to play the game. Once they have created their account they can also update their profile information such as their first and last name, add funds to their account and change their password. Users can play the card game and bet funds from their balance.

Task Distribution

- Rob:
  - Database table creation
  - Sign In Page
    - Allow player to register
    - Allow player to sign in
    - Allow player to sign out
  - Basic site layout
    - Creating shared
      - nav bar
      - head
      - footer
    - Stats page
- Marcelo:
  - Account page:
    a. Allow users to change their name.
    b. Allow users to change their last name.
    c. Add funds to their account.
    d. Allow users to change their password.
    e. Added style/CSS to the account page.
    f. Contributed to the project report.
    g. Contributed to the project presentation.
- Vance:
  - Play page:
    - Added full game logic and visuals for Blackjack
    - Added style/CSS to the play page
    - Uses API fetch calls
      - deckofcardsapi.com: initializeDeck(), drawCards(count)
      - database: fetchPlayerBalance(), updatePlayerBalance(), updateStatistics(), and updateDatabaseStreaks()
    - Uses localStorage to keep track of win and loss streaks between sessions

Changes from original design

There were no changes from the original design.

Database Schema (Tables)

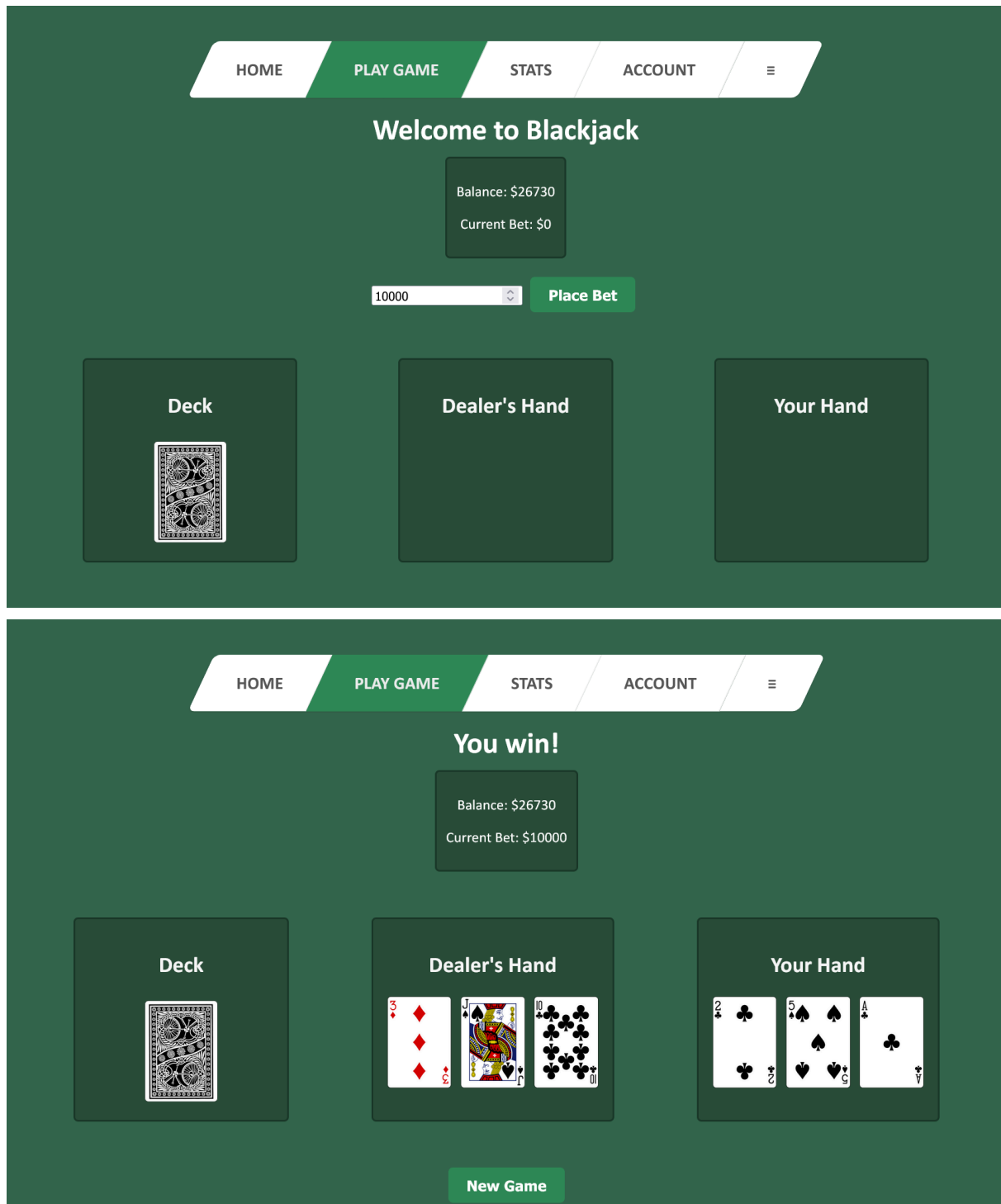| Table	Columns
player_info	- playerId - firstName - lastName - username - password - accountBalance - winStreak - loseStreak - numBlackjack - numNaturalBlackjack
player_games	- gameId - playerId - win - amount
games_played	- gameId - date

Requirements

Minimum requirements

Requirement	Meet via	Done
Project uses at least three database tables with at least 10 fields (combined)	● 3 tables, with 16 fields in total	✅
JavaScript and CSS code must be in external files	● Css in `/public/css/style.css` ● JS in `/public/js/script.js` & `public/js/blackjack.js`	✅
Upload all files as a zip file, including database records (export it in SQL Format)	● Uploaded all files as zip	✅

Feature Requirements

Requirement	Meet via	Done
Project allows user interaction with at least three different types of form elements (text box, select, radio, checkbox, etc).	● Form elements: 　○ Text box 　○ Password box 　○ Number box 　○ Button	✅
Project uses Web storage or Sessions	● Project uses sessions to secure access to routes and save username for use	✅
Project allows users to update existing records in the database, in a friendly way (data is pre-filled). Must update at least three fields.	● Users can: 　○ Update first name (prefilled) 　○ Update last name (prefilled) 　○ Add funds to their account balance 　○ Change their password.	✅

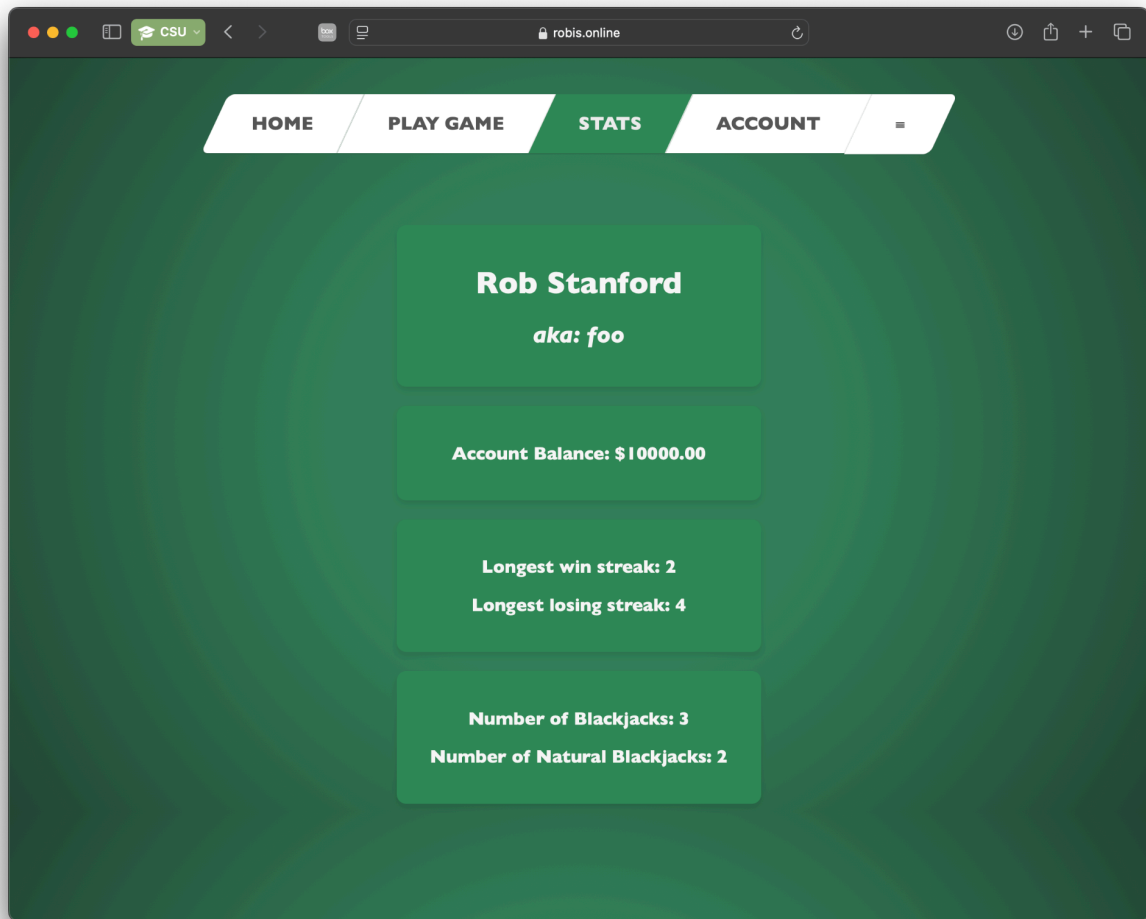|		
Project allow users to add records to the database	- Users can: - Register as a player - Change their name - Change password - Add funds to account - Games played - Game stats	✅
Project must have at least 50 lines of **client-side** JavaScript code (e.g. form data validation, API calls, etc.)	`/public/js/script.js` has X lines - Ingest data from forms - Write data to database - Blackjack game logic - API integration logic - Change password functionality	✅
Project includes at least two local or external Web APIs As part of your submission, please explain where the Fetch calls are.	- Uses https://deckofcardsapi.com API - Uses local API to check if username is available during registration	✅
Project has a nice, professional and consistent design, free of typos. Uses at least 50 CSS properties or Bootstrap.	- Nice, professional and consistent design - Free of typos. - Uses over 50 CSS properties, see `/public/css/style.css`.	✅

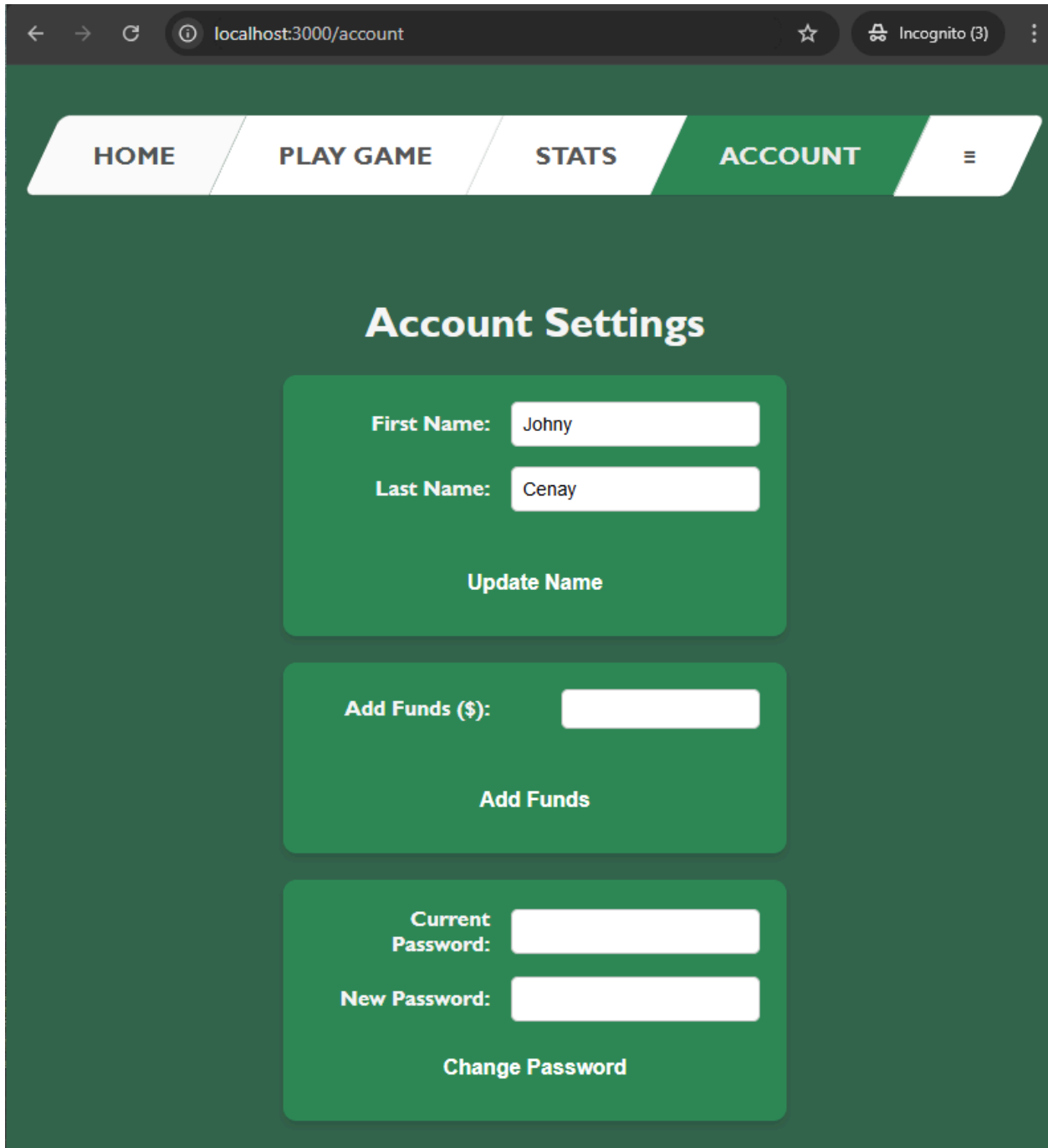# Screenshots of Finished Product

Description: The 'Play Game' page is where users can play the card game. It displays a message if the user lost or won the game. It also has a nice animation when playing the card game.

Stats Page

Description: In the stats page the user can see their information about the account such as their alias, account balance, game streaks and number of games played.

Account Page

Description: In the account page the user can update their first name, last name, change their password and add funds to their account. The first name and last name are retrieved from the database and prefilled in the form. In order to change their password the user needs to choose a new password with the length of at least six characters including one integer.

Register

First Name:

Last Name:

Username:

Password:

Balance:

Register

Sign In

Username:

Password:

Sign in

Description: In the sign in page users must register in order to play the card game. Once they have registered then they can sign in, play the game and update their profile.