

blackjack



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Functionality

- Playing:
 - users play games against the computerized dealer
 - users either 'hit' or 'stand'
- Betting:
 - Users must bet a token amount to play (min: 10, max: token total)
- Tokens:
 - Users given 500 at sign up
 - Users earn and lose after each game
 - When users run out, they can visit our **store** to restock
 - In store, we gift 100 tokens to any user with less than that amount
 - When a player attempts to play with no tokens, the store link appears

Tokens: 500

Input your desired bet amount:

You must bet at least 10 tokens, but no greater than your current token amount

10

Play!

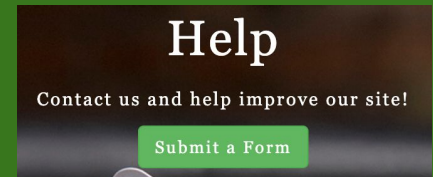
Hit Stand

9



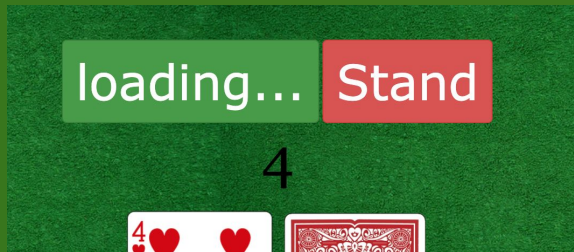
Functionality (cont.)

- Leaderboard:
 - Displays all users, and their rank by total amount of tokens.
- About & Help:
 - Displays the rules and potential strategies in our about page
 - Option to use our mail form to easily email us in our help page
- Profile:
 - Displays their email, the number of tokens they have accumulated, and an option to update their sign-up information.



Easy-to-miss functionality

- buttons ensure that a user can only submit an action once
 - prevents users from having too many cards by the time the page reloads

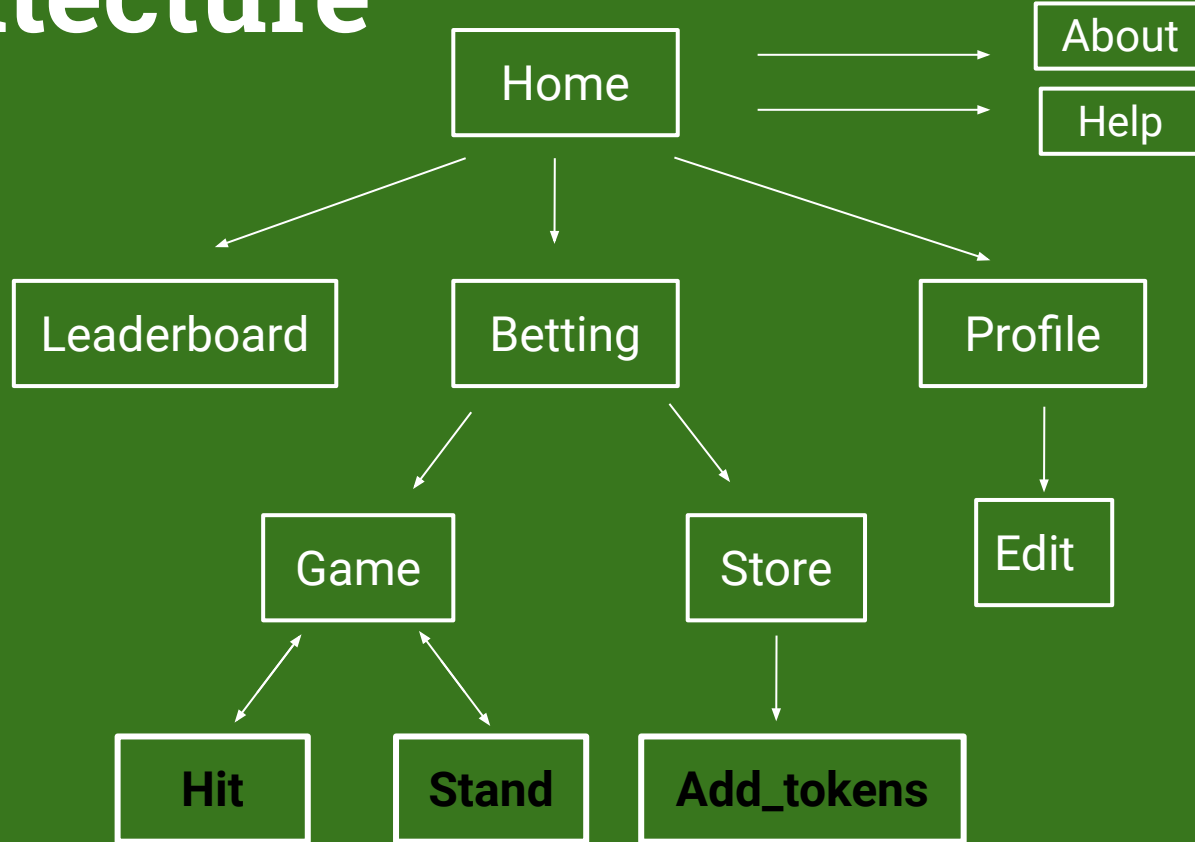


- Our game logic ensures that reloading the page after a win (or loss) will not continuously reward users for the same victory.

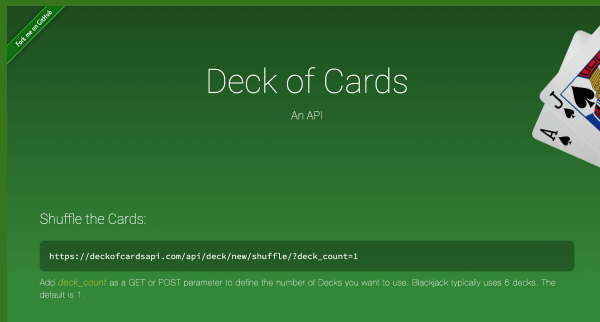
Schema



Architecture



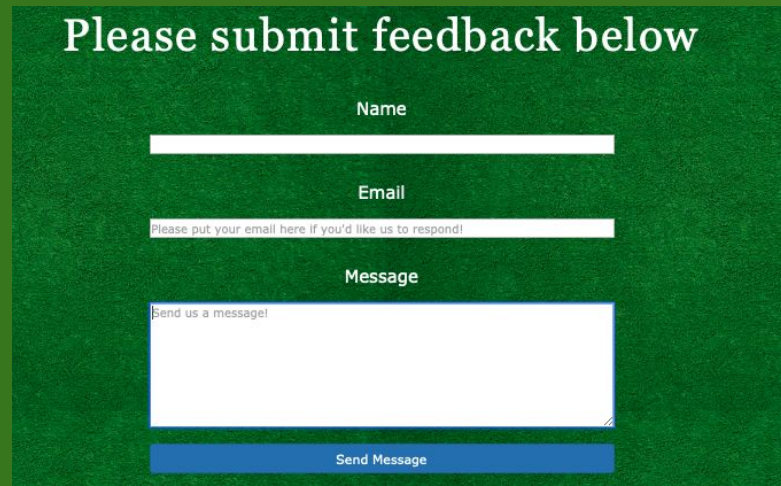
Deck of Cards API



- Allows for the creation of decks, each of which can be split into piles.
 - Saves the state of each deck (and pile).
- We have a new deck assigned to each game, from which all the cards are drawn.
- This has its upsides and downsides:
 - On the upside, we didn't have to create cards and save their state.
 - On the downside, our website takes longer to respond due to the API requests, and the requests can fail.
- One of our primary goals in doing this project was learning how to use an API.

Mail_form gem

creates a simple form which our users can use to give us feedback, without having to actually email us themselves.



The screenshot shows a web form with a dark blue background. At the top, the text "Please submit feedback below" is displayed in white. Below this, there are three input fields: a "Name" field, an "Email" field with a placeholder text "Please put your email here if you'd like us to respond!", and a "Message" field with a placeholder text "Send us a message!". At the bottom of the form is a blue button labeled "Send Message".

- utilizes the gem by installing it and writing “require ‘mail_form’” in the controller
- The contact controller included mail_form’s main feature (deliver) which would be called in the create method
- Lastly, set up SMTP in development and production, for the gmail we created, using the email’s domain, port, username and password

Leaderboard

Welcome to the Leaderboard!		
Rank	Username	Tokens
1	jake	2800
2	Jared	500
3	Ben	490
4	oob	200
5	Mitchell Dodell	90
6	dealer	5

- Purpose: creates competition amongst our users
- We created a leaderboard controller and a private method inside of it called `rank_users()`
 - This method iterates through all users with tokens and adds them to a list variable `@ranks`.
- Once done iterating, the list of users are then sorted by token amount, just as they are displayed in a traditional leaderboard.
- return a call to this private method in the controller index method, so our views index page can use it.

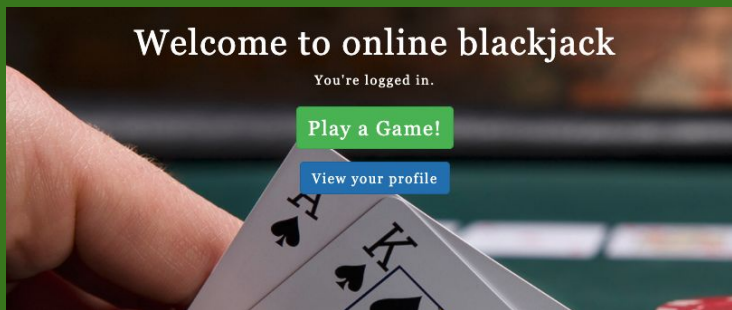
Team Review

- Extremely **positive** team **environment** and **chemistry** despite some differences in...
 - Coding acumen
 - Learning interests
 - Academic backgrounds
- **Division of work**
 - Separate branches
 - Reviewed commits before merging

Conclusions

What we are proud of:

- A fully functioning game
- Easy-to-use and beautiful U/I
- Fulfilled desire to work w/ APIs



Expansion:

- Multiplayer
- AI bot