

Team 3 Requirements

MSCI 342 Homework 3 Part 2

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Testing Sections

Login

Cards

Transaction

Admin Login

Admin Navigation

Admin Export Page

Admin Card Set Page

Admin Cards

Functional Requirements

Player Login: Danial Betres

Requirement Name: *FUN-PLAYER-LOGIN-1*

Requirement Description: The “login” button shall be disabled when the username input field contains non-alphanumeric characters.

Requirement Name: *FUN-PLAYER-LOGIN-2*

Requirement Description: The “login” button shall be disabled when the username input field is empty.

Requirement Name: *FUN-PLAYER-LOGIN-3*

Requirement Description: The “login” button shall be enabled when the user has inputted a username that contains only alphanumeric characters.

Requirement Name: *FUN-PLAYER-LOGIN-4*

Requirement Description: The application shall redirect the user to a new page that displays “loading” upon clicking the “login” button.

Requirement Name: *FUN-PLAYER-LOGIN-5*

Requirement Description: The application shall display a modal with instructional text about the game when the “instructions” button is clicked.

Requirement Name: FUN-PLAYER-LOGIN-6

Requirement Description: The user shall be able to close the instruction modal by clicking on either the top right x button or the “close” button.

Requirement Name: FUN-PLAYER-LOGIN-7

Requirement Description: An error shall be displayed on the main screen if the user tries to log in with an already used username.

Cards: Priyanka Brodie

Requirement Name: FUN-CARDS-1

Requirement Description: Upon each user entering the game room, the application shall display four cards on each user’s page as part of the initial state of the game.

Requirement Name: FUN-CARDS-2

Requirement Description: The application shall display an image associated with a card for each card the user has.

Transactions: Victoria Li

Requirement Name: FUN-TRANSACTION-1

Requirement Description: The user shall be able to accept or reject proposed trades (transactions) by clicking on the accept-button or reject-button that appears on the card that has been proposed.

Requirement Name: FUN-TRANSACTION-2

Requirement Description: The application shall remove the proposed card from the sender’s cCardset and into the recipient’s card set if a transaction has been accepted.

Requirement Name: FUN-TRANSACTION-3

Requirement Description: The sender shall receive their card proposed for a transaction back into their Cardset if a transaction has been rejected.

Requirement Name: FUN-TRANSACTION-4

Requirement Description: When a POST request is called to “request_trade”, The application shall return a 401 status error if at least one of card_id, recipient_id, sender_id fields is NULL.

Requirement Name: FUN-TRANSACTION-5

Requirement Description: When a POST request is called to “request_trade”, The application shall create a new Transaction row in the database if there is a card_id, recipient_id and sender_id.

Requirement Name: FUN-TRANSACTION-6

Requirement Description: The user shall be distributed with a set of cards in the most objectively imbalanced state at the beginning of the game.

Requirement Name: FUN-TRANSACTION-7

Requirement Description: When a transaction is in progress, a request shall be sent to all players to disabled them beginning a new transaction.

Admin Login: Jason Wang

Requirement Name: FUN-ADMIN-LOGIN-1

Requirement Description: The application shall display a text input field (text box) that allows admin users to type in an admin username.

Requirement Name: FUN-ADMIN-LOGIN-2

Requirement Description: The application shall display a text input field (text box) that allows admin users to type an admin password.

Requirement Name: FUN-ADMIN-LOGIN-3

Requirement Description: The application shall disable the “login” button if the username input field is empty.

Requirement Name: FUN-ADMIN-LOGIN-4

Requirement Description: Only when the user has inputted text into the username and password input field, the application shall enable the “login” button to be clickable.

Requirement Name: FUN-ADMIN-LOGIN-5

Requirement Description: Upon submission of the admin login button when the proper credentials are entered, the page should be redirected to the admin page.

Requirement Name: FUN-ADMIN-LOGIN-6:

Requirement Description: The user shall not be signed out of the admin portal upon refreshing the page or after being redirected back to the main page from any other page.

Admin Navigation: Priyanka Brodie

Requirement Name: FUN-ADMIN-NAVIGATION-1

Requirement Description: The application shall display a navigation pane on the left-hand side of the page when the hamburger menu button is clicked on the admin “Add Cardset” and “Export” pages.

Requirement Name: *FUN-ADMIN-NAVIGATION-2*

Requirement Description: The user shall be redirected to the “Export” page upon clicking on the “Export” tab in the navigation pane on the “Add Cardset” page.

Requirement Name: *FUN-ADMIN-NAVIGATION-3*

Requirement Description: The user shall be redirected to the “Add Cardset” page upon clicking on the “Cardset” tab in the navigation pane on the “Export” page.

Admin Export Page: Priyanka Brodie

Requirement Name: *FUN-UI-ADMIN-EXPORT-1*

Requirement Description: Upon clicking on the “Export Experiment Data” button on the Export page, the application shall download a CSV file containing data from the last experiment onto the user’s computer.

Requirement Name: *FUN-ADMIN-EXPORT-2*

Requirement Description: Upon clicking on the “Delete Experiment Data” button on the Export page, the application shall clear the experiment data from the database.

Admin Export Page: Ishani Adityan

Requirement Name: *FUN-ADMIN-EXPORT-3*

Requirement Description: The CSV file containing data from the last experiment shall contain the following columns: Recipient_ID, Sender_ID, Card_ID, Round_ID, and Type (In-Progress, Accepted, Rejected), and shall not be a null file.

Admin Card Set Page: Ayat Turar

Requirement Name: *FUN-ADMIN-CARDSET-1*

Requirement Description: The application shall save the input values and pictures to the corresponding ‘Cardset’ table in the database, once the user clicks the “Save cards” button.

Requirement Name: *FUN-ADMIN-CARDSET-2*

Requirement Description: The user shall be able to press the ‘Cardset 1’ tab on the Cardset Page and be able to see a new page of 16 cards.

Requirement Name: *FUN-ADMIN-CARDSET-3*

Requirement Description: The user shall be able to navigate to the ‘Cardset 2’ tab on the Rounds Page to access and input a new set of 16 cards.

Requirement Name: *FUN-ADMIN-CARDSET-4*

Requirement Description: The user shall be able to press the ‘Cardset 3’ tab on the Cardset Page and be able to see a new page of 16 cards.

Requirement Name: FUN-ADMIN-CARDSET-5

Requirement Description: The user shall not be able to click “Save cards” button if any of the 16 cards are missing required fields.

Requirement Name: FUN-ADMIN-CARDSET-6

Requirement Description: The user shall be able to select a specific set of cards for one experiment by clicking the ‘Chose for Experiment’ button.

Requirement Name: FUN-ADMIN-CARDSET-7

Requirement Description: The application shall indicate which specific ‘Card Set’ is being used for an experiment by displaying the ‘Card Set (chosen number) - Being used in Experiment” on the top right corner of the page.

Admin Cards: Ishani Adityan

Requirement Name: FUN-ADMIN-CARDS-1

Requirement Description: The application shall display two text input field that allows users to type both ‘primary’ and ‘secondary’ values for each card in the card set.

Requirement Name: FUN-ADMIN-CARDS-2

Requirement Description: The application shall display a empty image box field that allows users to select an image from their computer to be inputted into the allotted image area.

Requirement Name: FUN-ADMIN-CARDS-3

Requirement Description: The application shall support the most updated action of the user; replace a previously selected image by a new one or update a previous input value.

Requirement Name: FUN-ADMIN-CARDS-4

Requirement Description: The application shall indicate a missing input value by placing a “Required” text in red beside the ‘primary’ or ‘secondary’ values or image that needs to be filled.

Requirement Name: FUN-ADMIN-CARDS-5

Requirement Description: The user shall only be allowed to modify any of the input fields and image upon clicking on the edit icon button.

Requirement Name: FUN-ADMIN-CARDS-6

Requirement Description: The application shall only allow image file types (ex: .jpg, .png) to be uploaded to the image box.

Nonfunctional Requirements

Requirement Name: *NF-SCALABILITY-1 : Priyanka Brodie*

Requirement Description: The application shall be able to support four players at a single time.

Requirement Name: *NF-PERFORMANCE-2 : Victoria Li*

Requirement Description: The application shall be able to provide real-time, event-based communication between the client and server using socket.io in order to complete an entire experiment without refreshing any player's web pages.

Requirement Name: *NF-PERFORMANCE-3 : Jason Wang*

Requirement Description: When a player is involved in a transaction of either providing or receiving a card, the players are able to view the trade in real-time where a provided card appears in the respective trade bin associated to the other player.

Requirement Name: *NF-SECURITY-4 : Danial Betres*

Requirement Description: The admin user shall require a username and a password containing at least 6 characters, with one capital and one number, to enter the admin page

Requirement Name: *NF-CAPACITY-5 : Ishani Adityan*

Requirement Description: The application shall prevent admin users from uploading image files that is more than 1MB for any of the 16 'Admin Cards'.

Requirement Name: *NF-SECURITY-6 : Ayat Turar*

Requirement Description: The application shall require admin user to be successfully logged in in order to modify or view the current Admin cardsets.