Project D Design Layout

Page Content

* Request Flow
  + The page is initially loaded from /dashboard.html. From here using client side js, the page loads the fragments for the divs containing the graphs. In which the server populates the comboboxes from the database, and returns the empty div for the chart.
  + Once the server returns the html fragments for the div, the client requests the chart data, using a HTTP GET. The server then fetches the data from the database, parses it into the correct format for the chart, and returns it to the client.
  + The client using the highcharts library puts the data into the chart, displaying it to the user
* Fragments/Templates
  + Dashboard
    - The main page, contains the form for submitting new reviews
    - Contains the javascript to load in the other sections of the page
    - Contains brief text to describe instructions for the form
  + Containertwo
    - Contains the graph for displaying game reviews
    - Contains the game combobox for selecting which game to display
    - Contains a brief text to describe the data in the chart
  + Containerthree
    - Contains the pie chart for the hours played
    - Contains the combobox for selecting which player to display the hours for
  + Continerfour
    - Contains the graph for the average amount spent
    - Contains a brief text containing relative content

Backend Outline

* Javascript Files
  + App.js Contains the main entry point for the application
  + index.js defines all of the url mappings, and determines the data to send back to the client
  + Dao.js Contains all of the database code to fetch objects from the database (Data Access Object)
* URL Mappings
  + /dashboard.html – returns the main page of the application
    - All of the HTML / fragments are rendered using jade
  + /containertwo – returns the second div of the main page
    - Uses dao to populate the combobox with data from the database
  + /containerthre – returns the third div of the main page
    - Uses dao to populate the combobox with data from the database
  + /containerfour – returns the fourth div of the main page
  + /reviews – returns a list of all the game reviews for a specific game
    - Uses dao to fetch a list from the database
  + /hours – returns a list of all the hours played for a specified player
    - Uses dao to fetch a list from the database
  + /spent – returns the data for all of the average spent data
    - Uses dao to fetch a list from the database
  + /chart/reviews – fetches the review data formatted for the chart
    - Same as /reviews, except it formats it for display in the chart
  + /chart/hours – fetches the hours played data formatted for the chart
    - Same as /hours except it formats it for display in the chart
  + /chart/spent – fetches the average spent formatted for the chart
    - Same as /spent, except it formats it for the display in the chart
  + /game/all – fetches a list of all the games in the review database
  + /player/all – fetches a list of all players in the hours played database
  + /create/review – entry point for posting a new game review into the database