SPORTCRED - Design Document

Team TODO

Sprint 4

Note: Changes marked with this symbol: CHANGED

Table of Contents

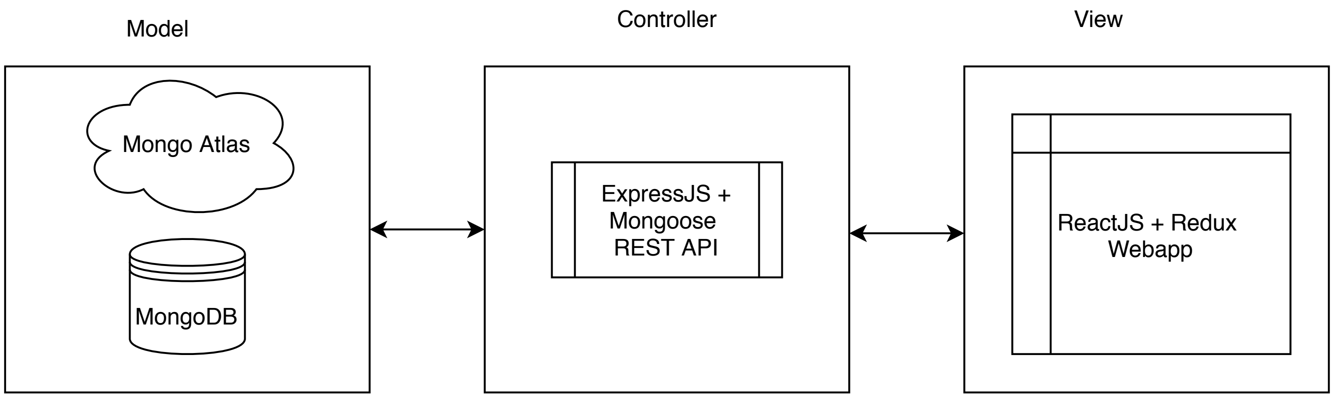
System Boundary Diagram

Technically, redux is not an exact MVC architecture, but is similar to one. We have our webapp's state stored inside a "store" created and managed by redux. Each interaction to our components on the front end emits an action that will either (or do both) 1) update state in the frontend, or 2) update state in the front end, trigger a side effect (e.g. API call) and then once again update state in the front end when the side effect is resolved.

We have our react app subscribed to this state store and updating accordingly. Redux can be kind of thought as a controller, but the interaction with our Model (mongoDB) is truly done through API calls to our REST endpoint hosted using ExpressJS and Mongoose (mongoDB driver).

The reason this is different is because the traditional MVC pattern has the model directly affecting and triggering updates of the View, but here we have Redux triggering updates and Redux will only trigger updates when the controller returns with information. The View is still dependent on the model, but it's just not directly subscribed to the model

Related resource: https://www.clariontech.com/blog/mvc-vs-flux-vs-redux-the-real-differences



MongoDB Documents / Mongoose Models

CHANGED

Class Name: User
Parent Classes: None
Subclasses: None

Responsibilities:
Represent all information tied to a user

Knows username
Knows password
Knows "bio" information
Knows demographic information
Knows ACS score
Knows active trivia games
Knows status for daily debate question
Knows current picks and predictions for the user
Knows profile picture

Collaborators:
Post
DebateAnswer
TriviaGame
PAndP
Acs

CHANGED

Class Name: Post
Parent Classes: None
Subclasses: None

Responsibilities:
Represent all information of a post on open court.

Knows text content of post
Knows picture content of post
Knows owner of post
Knows date and time posted
Knows comments on post

Collaborators:
User
Comment
User-profile

CHANGED

Class Name: Comment
Parent Classes: None
Subclasses: None

Responsibilities:
Represent all information of comment

Knows text content of comment
Knows owner of comment
Knows date and time of comment

Collaborators:
Post
User-profile

Class Name: DebateQuestion
Parent Classes: None
Subclasses: None

Responsibilities:
Represent all information tied to a daily debate question

Knows text content of debate question
Knows targeted tier or debate question

Collaborators:
Debate
Response

Class Name: Response
Parent Classes: None
Subclasses: None

Responsibilities:
Represents a user's response to a debate topic

Knows who made the response and what the response was
Knows how many times this response was distributed to be evaluated
Knows when the response was made
Knows what the ratings the response received from other users

Collaborators:
User
Debate

Class Name: TriviaQuestion
Parent Classes: None
Subclasses: None

Responsibilities:
Holds questions related to a trivia game

Knows a trivia question
Knows correct answers to question bank in trivia game
Knows all possible Responses to question

Collaborators:
TriviaAnswer

Class Name: TriviaAnswer
Parent Classes: None
Subclasses: None

Responsibilities:
Holds one potential response to a trivia question

Knows value of the response
Knows whether the response is correct or incorrect

Collaborators:
None

Class Name: user-picks
Parent Classes: None
Subclasses: None

Responsibilities:
Represent the picks that the user has made about future awards

Knows the user who has made this pick
Knows the year for which this pick is relevant
Knows the picks that the user has created for this year
Knows the results of the picks that the user has chosen

Collaborators:
User

Class Name: game-picks
Parent Classes: None
Subclasses: None

Responsibilities:
Represent game pick for the daily picks feature.

Knows the user that created the pick
Knows map containing the game and pick that the user has chosen
Knows whether or not this pick has been evaluated or not

Collaborators:
User
Game

Class Name: games
Parent Classes: None
Subclasses: None

Responsibilities:
Represent a game that has happened or will happen.

Knows the date of the game
Knows the image of the away and home teams
Knows the names of the home and away teams
Knows the winner of the game

Collaborators:
game-picks

Class Name: bracket
Parent Classes: None
Subclasses: None

Responsibilities:
Represent playoff bracket matchups

Knows the score and winner of each match

Collaborators:
User

Class Name: Debate
Parent Classes: None
Subclasses: None

Responsibilities:
Represents an active debate between a group of users.

Knows the users involved in the debate
Knows what the debate question is
Knows which tier the debate is apart of
Knows when the debate happened
Knows which responses were made for the debate

Collaborators:
User
Response

Class Name: HHTriviaGam
Parent Classes: None
Subclasses: None

CHANGED

Responsibilities:
Represents a head to head trivia game

Knows the players of the game
Knows the state of the game (finished, still going on, player 1 won, draw, etc)
Knows the trivia questions to give players

Collaborators:
Trivia Question

Class Name: bracketChoices
Parent Classes: None
Subclasses: None

Responsibilities:
Represent playoff bracket choices of the user.

Knows the user that created the bracket
Knows map containing the bracket choice and the scores user has chosen
Knows whether or not this pick has been evaluated or not

Collaborators:
User
Bracket

Class Name: Player
Parent Classes: None
Subclasses: None

Responsibilities:
Represents players from the NBA.

Knows the player name, team and whether they are a rookie

Collaborators:
user-picks

Class Name: Team
Parent Classes: None
Subclasses: None

Responsibilities:
Represents teams from the NBA

Knows the team name, and players. Also has the team logo

Collaborators:
user-picks

Class Name: Acs
Parent Classes: None
Subclasses: None

CHANGED

Responsibilities:
Represent all information tied to a user

Knows games acs score
Knows history acs score
Knows predictions acs score
Knows analysis acs score

Collaborators:
None

Class Name: user-profile
Parent Classes: None
Subclasses: None

Responsibilities:
Represent a user by displaying their username, acs, bio, and profile pic.

Knows the user that is going to be displayed
Collaborators:
User

Class Name: Winner
Parent Classes: None
Subclasses: None

Responsibilities:
Represents the winners of end-of-season awards in a given year

Knows the year and the names of the winners of the awards

Collaborators:
user-picks

REST API UML Diagrams

GET /users

+ List of User objects

GET /users/:ids

+ List of User objects

POST /users

+ username: string
+password: string
+age: integer
+gender: string
+acs: integer

DELETE /users/:id

+ User object

PUT /users/:id

CHANGED

+ username: string (opt)
+ password: string (opt)
+ age: integer (opt)
+ gender: string (opt)
+ acs: object (opt)
+ triviaGames: [string] (opt)
+ pAndP: [string] (opt)

+ User object

PUT /users/:id/profilepic

+picture: string

GET /ocposts

+ List of OpenCourtPost objects

GET /ocposts/:id

+ OpenCourtPost object

POST /ocposts

+content:string
+origPoster: string
+picture: string

DELETE /ocposts/:id

+ OpenCourtPost object

PUT /ocposts/:id

+ body: string (opt)
+ owner: string (opt)

+ OpenCourtPost object

DELETE /ocposts/:id/comments/:cid

+ Comment object

GET /ocposts/:id/comments

+ [Comment object]

GET /ocposts/:id/comments/:cid

+ Comment object

POST /ocposts/:id/comments

+ content: string
+ origPoster: string

GET /debate-questions

+ [DebateQuestion object]

GET /debate-questions/get-by-tier/:tier

+ tier: String

+ [DebateQuestion object]

GET /debate

+ [Debate object]

GET /debate/:id

+ id: String

+ Debate object

GET /debate/get-by-date/:date

+ date: Date

+ [Debate object]

GET /debate/get-by-userid/:userid

+ userid: String

+ [Debate object]

GET /debate/get-by-tier/:tier

+ tier: String

+ [Debate object]

POST /debate

+ tier: String
+ debaterIds: List of ObjectIds
+ responseIds: List of ObjectIds
+ question: String
+ date: Date
+ isEvaluated: Boolean

+ newDebate: Debate object

PUT /debate/:id

+ id: String
+ tier: String
+ debaterIds: List of ObjectIds
+ responseIds: List of ObjectIds
+ question: String
+ date: Date
+ isEvaluated: Boolean

+ newDebate: Debate object

GET /trivia/questions

List of TriviaQuestion objects

GET /trivia/:id

+ body: string

+ user:number

POST /trivia

+ question: string
+responses: List of trivia-answer object

+ newQuestion: trivia-question object

PUT /user-picks/:uid

+ year: Number
+ user: uid
+picks: user-pick Object
+results: Object
+isEvaluated: Boolean

+ user-pick object

POST /user-picks/

+ year: Number
+ user: uid
+picks: user-pick Object
+results: Object
+isEvaluated: Boolean

+ user-pick object

GET /games/

+ Array of games object

GET /team/

+ Array of team object

GET /user-picks/:id

+ id: String

+ user-pick object

GET /game-picks/:id

+ id: String

+ game-pick object

PUT /game-picks/:uid

+ user: uid
+picks: user-pick Object

+ game-pick object

GET /bracket/:year

+ bracket object

POST /bracket/bracketChoice/

+ teamOne: String
+ teamTwo: String
+ winnerID: String
+ resultForWinner: String
+ userID: String
+ isFirstMatch: Boolean
+ winnerScore: Number
+ loserScore: Number

+ bracketChoice object

GET /bracket/bracketChoice/userID/:id

+ bracketChoice object

GET /debate-responses

+ [Response object]

GET /team/:uid

+ team object

GET /winners/:year

+ winner object

POST /game-picks/

+ user: uid
+picks: user-pick Object

+ game-pick object

PUT /user-picks/:uid

+ year: Number
+ user: uid
+picks: user-pick Object
+results: Object
+isEvaluated: Boolean

+ user-pick object

PUT /bracket/bracketChoice/:id

+ teamOne: String
+ teamTwo: String
+ winnerID: String
+ resultForWinner: String
+ userID: String
+ isFirstMatch: Boolean
+ winnerScore: Number
+ loserScore: Number

+ bracketChoice object

GET /debate-responses/get-from-list-of-ids

+ responseids: [String]

+ [Response object]

GET /debate-responses/get-assigned-resonses

+ id: String

+ [String]

GET /debate-responses/:id

+ id: String

+ [Response object]

POST /debate-responses/

+ user: String
+ content: String
+ count: Number
+ratings: Map
+date: Date

+ Response object

PUT/debate-responses/update-count/:id

+ id: String
+ count: Number

+ Response object

PUT /debate-responses/put-rating/:id

+ raterId: String
+ rating: Number
+ id: id

+ Response object

CHANGED

PUT /hhtrivia/:id/start/:player

+ id: string
+ player: integer

+ HHTriviaGame object

CHANGED

PUT /hhtrivia/:id/acsChange/:player

+ id: string
+ player: integer
+ acsChange: integer

+ HHTriviaGame object

CHANGED

PUT /hhtrivia/:id/evaluate

+ id: string

+ HHTriviaGame object

CHANGED

PUT /hhtrivia/:id/increment-correct/:player

+ id: string
+ player: integer

+ HHTriviaGame object

CHANGED

POST /hhtrivia/create-game

+ userId: string

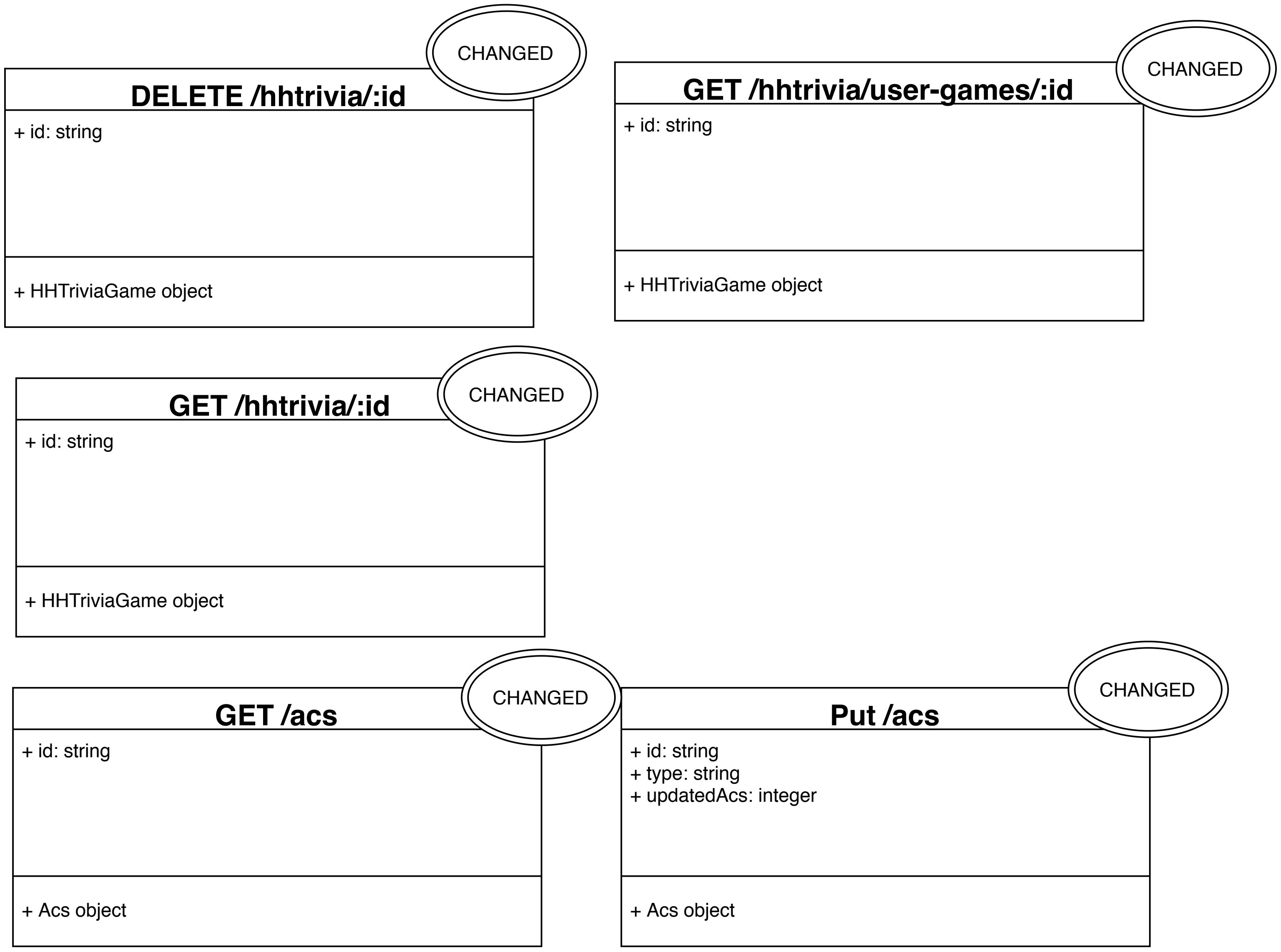
+ HHTriviaGame object

CHANGED

PUT /hhtrivia/join-game

+ userId: string

+ HHTriviaGame object



CHANGED

DELETE /hhtrivia/:id

+ id: string

+ HHTriviaGame object

CHANGED

GET /hhtrivia/user-games/:id

+ id: string

+ HHTriviaGame object

CHANGED

GET /hhtrivia/:id

+ id: string

+ HHTriviaGame object

CHANGED

GET /acs

+ id: string

+ Acs object

CHANGED

Put /acs

+ id: string
+ type: string
+ updatedAcs: integer

+ Acs object

ReactJS DOM Diagram (changed) :
Link for draw.io file download:
pending link

Png was too large!