SPORTCRED - Design Document

Team TODO

Sprint 2

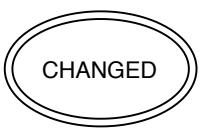
Note: Changes marked with this symbol: 

Table of Contents

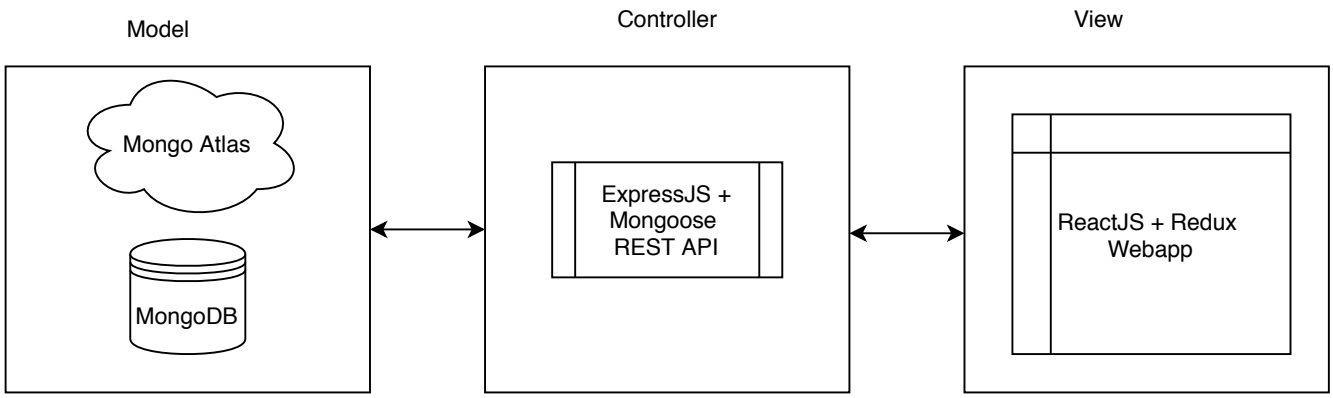
System Boundary Diagram

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

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

Class Name: Post
Parent Classes: None
Subclasses: None

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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

Class Name: Comment
Parent Classes: None
Subclasses: None

CHANGED

Responsibilities:
Represent all information of comment

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

Collaborators:
Post

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 debate answers to debate question
Knows date and time of debate question creation
Knows targeted tier or debate question

Collaborators:
DebateAnswer

Class Name: DebateAnswer
Parent Classes: None
Subclasses: None

Responsibilities:
Represent all information tied to an answer to a daily debate question

Knows original debate question
Knows text content of answer to debate question

Collaborators:
DebateQuestion
User

Class Name: TriviaGame
Parent Classes: None
Subclasses: None

Responsibilities:
Holds questions related to a trivia game

Knows question bank of trivia game
Knows correct answers to question bank in trivia game
Knows player list for trivia game
Knows answers each player has given for trivia game

Collaborators:
User

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

CHANGED

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

CHANGED

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

REST API UML Diagrams

CHANGED

GET /users

+ List of User objects

GET /users/:ids

+ List of User objects

CHANGED

POST /users

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

DELETE /users/:id

+ User object

PUT /users/:id

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

+ User object

PUT /users/:id/profilepic

+picture: string

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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

CHANGED

Removed nested replies to comments

Removed nested replies to comments

Removed nested replies to comments

GET /debatequestions

+ [DebateQuestion object]

GET /debatequestions/:tier

+ [DebateQuestion object]

POST /debatequestions/:tier

+ body: string

DELETE /debatequestions/:tier/:id

+ DebateQuestion object

PUT /debatequestions/:tier/:id

+ body: string (opt)

+ DebateQuestion object

GET /debatequestions/:tier/:id

+ DebateQuestion object

POST /debatequestions/:tier/:id/replies

+ body: string
+ owner: string

GET /debatequestions/:tier/:id/replies

+ [DebateAnswer object]

GET /debatequestions/:tier/:id/replies/:id

+ DebateAnswer object

GET /triviagames

+ [TriviaGame object]

GET /triviagames/:id

+ TriviaGame object

POST /triviagames

+ players: [string]
+ questions: dict

POST /triviagames/:id/questions/:qid/answers/:uid

+ choice: string

GET /triviagames/:id/questions

+ [string]

GET /triviagames/:id/questions/:uid

+ string

GET /triviagames/:id/questions/:qid/answers/:uid

+ string

POST /user-picks/

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

+ user-pick object

GET /user-picks/:id

+ id: String

+ user-pick object

GET /team/

+ Array of team object

PUT /user-picks/:uid

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

+ user-pick object

GET /team/:uid

+ team object

GET /games/

+ Array of games object

GET /winners/:year

+ winner object

GET /game-picks/:id

+ id: String

+ game-pick object

PUT /game-picks/:uid

+ user: uid
+picks: user-pick Object

+ game-pick object

POST /game-picks/

+ user: uid
+picks: user-pick Object

+ game-pick object

GET /bracket

+ Array of brackets

POST /bracket

+ bracket object

+ bracket object

PUT /user-picks/:uid

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

+ user-pick object

POST /bracket/bracketChoice/

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

+ bracketChoice object

POST /bracket/:id/team/:tid

+ team object

GET /bracket/bracketChoice/:id

+ bracketChoice object

PUT /bracket/bracketChoice/:id

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

+ bracketChoice object

DELETE /bracket/bracketChoice/:id

+ bracketChoice object

GET /bracket/bracketChoice/userID/:id

+ bracketChoice object

ReactJS DOM Diagram (changed) :

Link for draw.io file download:
https://drive.google.com/file/d/1UCoVQJUcR9--3jiEZcmtqHVc56nx7LXQ/view?usp=sharing

Or please see the DOMDesign.png file in the repo as the diagram was too large to fit in this pdf