# SPORTCRED - Design Document Team TODO

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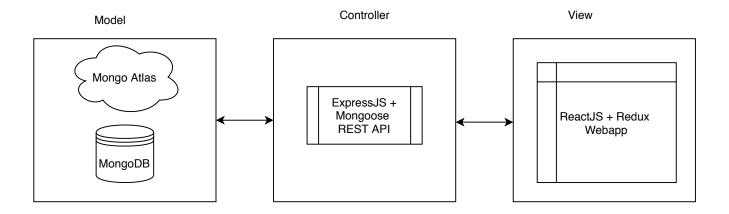
#### **System Boundary Diagram**

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 "about me" 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

Collaborators:

OpenCourtPost **DebateAnswer TriviaGame PAndP** 

Class Name: OpenCourtPost

Parent Classes: None Subclasses: None

Responsibilities:

Represent all information of a post on

open court.

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

Collaborators:

User

Comment

Collaborators:

Class Name: Comment

Represent all information of comment

Knows original OpenCourtPost

Knows text content of comment

Knows date and time of comment

Knows owner of comment

Knows replies to comment

Parent Classes: None

Subclasses: None

Responsibilities:

OpenCourtPost

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

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: PAndP Parent Classes: None Subclasses: None

Responsibilities:

Represent picks and prediction a user has made

Knows current season picks and predictions

Knows playoff bracket picks and

predictions

Collaborators:

User

# **REST API UML Diagrams**

GET /users	GET /users/:i	id	POST /users	DELETE /users/:id
			username: string bassword: string	
+ List of User objects	+ User object	+6	age: integer gender: string acs: integer	+ 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				
GET /ocposts	GET /ocpo	osts/:id	POST /ocp	osts
+ List of OpenCourtPost objects	+ OpenCourtPost o	bject	+ body: string + owner: string	
		•		
DELETE /ocposts/:id	+ body: string (opt)			
	+ owner: string (opt)			
+ OpenCourtPost object	- OpenCourtPost o	higgs		
	+ OpenCourtPost o	boject		
DELETE /ocposts/:id/c	omments/:cid	GET /	ocposts/:id/comm	ents
+ Comment object		+ [Comment	object]	
GET /ocposts/:id/com	ments/:cid		/ocposts/:id/comn	nents
		+ body: string + owner: strin		
+ Comment object				
POST /ocposts/:i	d/comments/:ci	d/replies		
+ body: string + owner: string				

GET /ocposts/:id/o	comments/:	cid/replies	
+ [Comment object]			
GET /ocposts/:id/co	mments/:ci	d/replies/:rid	
+ Comment object			
GET /debatequestions	GET /deba	atequestions/:tier	POST /debatequestions/:tier
+ [DebateQuestion object]	+ [DebateQuest	tion object]	+ body: string
DELETE /debatequestion	s/:tier/:id	PUT /debate + body: string (opt)	equestions/:tier/:id
+ DebateQuestion object		+ DebateQuestion obje	ect
GET /debatequestions/	/:tier/:id	+ body: string	tequestions/:tier/:id/replies
+ DebateQuestion object		+ owner: string	
GET /debatequestions	:/:tier/:id/rep	olies	
+ [DebateAnswer object]			
GET /debatequestions/:	tier/:id/repli	ies/:id	
+ DebateAnswer object			

GET /triviagames	GET /triviagames/:id
+ [TriviaGame object]	+ TriviaGame object
POST /triviagames	POST /triviagames/:id/questions/:qid/answers/:u
+ players: [string] + questions: dict	+ choice: string
GET /triviagames/:id/q	uestions  GET /triviagames/:id/questions/
+ [string]	+ string
	uestions/:qid/answers/:uid
+ string	
+ string  GET /pandps/:uid	uestions/:qid/answers/:uid  POST /pandps/:uid + picks: pAndP object
+ string	POST /pandps/:uid
+ string  GET /pandps/:uid	POST /pandps/:uid + picks: pAndP object

## **ReactJS DOM Diagram:**

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