App

Responsibilities
- The host container of the app
- All repeated UI elements are in here

Collaborators
- None

Parent Class: None

Child Classes: LoginComponent, SignUpComponent
ProfileComponent, TheZoneComponent

Login

Responsibilities
- Authenticate user with username/pass
- Provide entry to the Signup page for new users
- Direct users to the home page after successful login
- Stores the authentication token in a centralized location

Collaborators
- SignUp, TheZone, LoginService, **SideEffects**

Parent Class: App

Child Classes: None

Signup

Responsibilities
- Record the username/password (basic info)
- Ask 6 question questionnaire
- Take new signed up users into the application

Collaborators
- TheZone, **SignUpService,SideEffects**

Parent Class: App

Child Classes: None

Profile

Responsibilities
- Display the user's profile picture
- Allow user to upload a new profile picture
- Display information about the user
- Edit existing information about the user
- Display the status of the user
- Edit status of the user

Collaborators: ProfileService, **SideEffects**

Parent Class: App

Child Classes: None

TheZone

Responsibilities
- Display previews of all features and redirect
  users to those features when clicked

Collaborators: OpenCourt,
Trivia, PicksAndPredictions, Debate

Parent Class: App

Child Classes: None

OpenCourt

Responsibilities
- Display posts
- Open up a modal to create posts

Collaborators: Post, CreatePost
OpenCourtService, **SideEffects**

Parent Class: None

Child Classes: None

CreatePost

Responsibilities
- Display a form with a title field and content field
- Allow user to hit submit which will create the post

Collaborators: None

Parent Class: None

Child Classes: None

Post

Responsibilities
- Display the info of a post (title/content/agree/disagree)
- Show buttons to agree/disagree on a post
- Display comment section

Collaborators: CommentSection

Parent Class: None

Child Classes: None

CommentSection

Responsibilities
- Have a comment form to reply to the post
- Display a list of comments

Collaborators: Comment

Parent Class: None

Child Classes: None

Comment

Responsibilities
- Display the user of the comment
- Display the timestamp
- Display the content of the comment
- Display which post/comment this comment
  is replying to

Collaborators: None

Parent Class: None

Child Classes: None

Trivia

Responsibilities
- Display option for setting up a solo game
  or multi-player game
- Makes sure both players in head to head
  trivia hasn't surpassed their daily limits
- Invite another user to play multi-player game

Collaborators:
- SoloTrivia, HeadToHeadTrivia
- TriviaService, **SideEffects**

Parent Class: None

Child Classes: None

SoloTrivia

Responsibilities
- Display 1 question at a time (10 times)
- Set question's timer to be 14 seconds
- Update ACS Score after 10 questions answe

Collaborators: TriviaQuestion

Parent Class: None

Child Classes: None

HeadToHeadTrivia

Responsibilities
- Display 1 question at a time (10 times)
- Set question's time will be 10 seconds
- Notify the other user that the game
  is over when completed
- Update the ACS scores once both players are do
- Add a tiebreaker question if they are tied
- Decide the winner based on who answered first

Collaborators: TriviaQuestion

Parent Class: None

Child Classes: None

TriviaQuestion

Responsibilities
- Display Question and Answers pair
- Display input fields to select/submit an answe
- Show if the answer was correct or not
- Have a timer of x seconds

Collaborators: None

Parent Class: None

Child Classes: None

Predictions

Responsibilities
- Display options to make Daily Picks
  , preseason predictions, or playoff brackets

Collaborators: DailyPicks, PreseasonPredictions
PlayoffBracket, **SideEffects, PredictionsService**

Parent Class: None

Child Classes: None

DailyPick

Responsibilities
- Display a list of historical games and results
  - Display a list of daily games and input
  fields to predict

Collaborators: Game

Parent Class: None

Child Classes: None

PreseasonPredictions

Responsibilities
- Display a list of historical preseason picks
  and results
- Display a list of predictions for various
  categories and input fields to select an answer

Collaborators: PreseasonPrediction

Parent Class: None

Child Classes: None

PreseasonPrediction

Responsibilities
- Shows the category
- Show a dropdown or input field to select an
  answer
- For historical predictions, show the outcome

Collaborators:None

Parent Class: None

Child Classes: None

Game

Responsibilities
- Show the two teams
- For historical games,
  Show the score (outcome)
- Show the prediction
- Show the input field to predict a winner

Collaborators: None

Parent Class: None

Child Classes: None

PlayoffBracket

Responsibilities
- Display a list of matchups for all rounds
- Show brackets for all past years results

Collaborators: **PlayoffMatchup**

Parent Class: None

Child Classes: None

PlayoffMatchup

Responsibilities
- Show the two teams
- Display button to choose the winner of the matchup
- Choose how many games won/lost

Collaborators: None

Parent Class: None

Child Classes: None

Debate

Responsibilities
- Displays the state of the debate

Collaborators: GiveDebateAnswer, ViewDebateAnswers
  - **SideEffects, DebateService**

Parent Class: None

Child Classes: None

GiveDebateAnswer

Responsibilities
- Diplays the question of the day
- Shows input field to post analysis

Collaborators: None

Parent Class: None

Child Classes: None

ViewDebateAnswers

Responsibilities
- Shows the question of the day
- Shows users and their answers to the question

Collaborators: None

Parent Class: None

Child Classes: None

LoginService (DAO)

Responsibilities
- Makes the HTTP request for authenticating a user

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None

SignUpService (DAO)

Responsibilities
- Makes the HTTP request for registering a user

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None

ProfileService (DAO)

Responsibilities
- requests for the profile of the user
- makes the HTTP request to update the profile

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None

HttpClientWrapper

Responsibilities
- wrapper class to handle all HTTP requests

Collaborators: None

Parent Class: None

Child Classes: None

OpenCourtService (DAO)

Responsibilities
- request for the posts to be displayed
- makes the HTTP request to make a post
- makes the HTTP request to get/make comments

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None

TriviaService (DAO)

Responsibilities
- makes the request to create a game of trivia
- makes the HTTP request to get trivia questions
- updates the answers of the user to the backend

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None

PredictionsService (DAO)

Responsibilities
- makes the HTTP requests to get all the
  options for making all the predictions
- makes the HTTP request to save the user's
  predictions

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None

DebateService (DAO)

Responsibilities
- makes the request to get the debate question/
  answers from the backend
- makes the request to create the user's
  answer

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None

SideEffects (Observer)

Responsibilities
- listens for the responses to all HTTP requests
  and store the responses into the internal state
- notify any class that requires data from the
  responses/state

Collaborators: **HttpClientWrapper**

Parent Class: None

Child Classes: None