

BaseSettings
Responsibilities - Store the configuration for app server such as authentication defaults, database configuration, pagination settings, static file locations and secret keys. - Different environments can extend this class to modify the configurations.
Collaborators - None
Parent Class: DjangoDefaults
Child Classes: DevSettings, ProdSettings

Model
Responsibilities - Abstract the database so we can seamlessly change implementation - Provide python interface to creating tables - Manage relationships between tables - Handle all CRUD operations for respective table
Collaborators: ModelSerializer,
Parent Class: None
Child Classes: SportsCredUser, Post, ACS, Follows, DebatePost Agrees, SocialPost, Likes, QuestionnaireResponse, Sports, Teams, Player, Highlights, PredictionChoice

ModelSerializer
Responsibilities - Convert json request body into respective model object - Convert model object to json to be sent over http - Define what fields a consumer is able to see from the model
Collaborators - Model
Parent Class: None
Child Classes: UserSerializer, PostSerializer, PredictionSerializer, SportSerializer, TeamSerializer, PlayerSerializer

FilterSet
Responsibilities - Handle parsing query string for GET requests - Define valid query params for models
Collaborators: Respective Model class. (UserFilter collaborates with SportsCredUser model)
Parent Class: None
Child Classes: UserFilter, PredictionFilter, PostFilter, QuestionFilter

ViewSet
Responsibilities - Define the actions for a set of resources exposed by the app server's API that will be handled by a router class - Usually map to a Model but not necessarily. Model doesn't have any direct interaction with this class
Collaborators: DefaultRouter
Parent Class: None
Child Classes: UserViewSet, PostViewSet, QuestionsViewSet, PredictionViewSet

BasePermission
Responsibilities - Authorization on end points - Performs a series of functions based off viewset input to either allow a request or to reject it
Collaborators: ViewSet
Parent Class: None
Child Classes: AnonCreateAndUpdateOwnerOnly

ChatConsumer
Responsibilities - Connect web socket to front end for chats and notifications - Alert consumer when a new chat message or notification is received - close connection when user logs off
Collaborators - Permissions.IsAuthenticated (permission class)
Parent Class: JsonWebSocketConsumer
Child Classes: None

ACSTask
Responsibilities - adhoc updates to ACS tasks. Not directly exposed through Web API - Schedule ACS updates for users. (decay of ACS daily)
Collaborators: None
Parent Class: None
Child Classes: None

SportsCredUser

Post

<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- knows passwords/username</li> <li>- knows whether a user is admin (just a boolean)</li> <li>- knows which ACS it has for each sport</li> <li>- knows what posts it's created</li> <li>- know what predictions it's made</li> <li>- knows its highlights</li> <li>- knows the posts it likes for SocialPost</li> <li>- knows the rating it gave for DebatePost</li> </ul>
Collaborators: Post
Parent Class: User (User is a subclass of Model)
Child Classes: None

<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

<b>DebatePost</b>
<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- knows passwords/username</li> <li>- knows whether a user is admin (just a boolean)</li> <li>- knows which ACS it has for each sport</li> <li>- knows what posts it's created</li> <li>- know what predictions it's made</li> <li>- knows its highlights</li> <li>- knows the posts it likes for SocialPost</li> <li>- knows the rating it gave for DebatePost</li> </ul>
Collaborators: Post
Parent Class: User (User is a subclass of Model)
Child Classes: None

<b>SocialPost</b>
<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

<b>ACS</b>
<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

<b>Follows</b>
<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

<b>Agrees</b>
<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>

<b>Likes</b>
<b>Responsibilities</b> <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>

Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

QuestionnaireResponse
Responsibilities <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

Sport
Responsibilities <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

Highlights
Responsibilities <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

Team
Responsibilities <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

Player
Responsibilities <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

Prediction
Responsibilities <ul style="list-style-type: none"> <li>- knows its identifier</li> <li>- Given a user_id can find all the posts for by user</li> <li>- knows its title</li> <li>- knows its content</li> <li>- knows any attachments</li> </ul>
Collaborators:
Parent Class: User (User is a subclass of Model)
Child Classes: DebatePost, SocialPost

PredictionChoice
<div>Responsibilities</div> <ul style="list-style-type: none"><li>- knows its identifier</li><li>- Given a user_id can find all the posts for by user</li><li>- knows its title</li><li>- knows its content</li><li>- knows any attachments</li></ul>
<div>Collaborators:</div>
<div>Parent Class: User (User is a subclass of Model)</div>
<div>Child Classes: DebatePost, SocialPost</div>