

CRC cards

Backend Classes

Class name: Main

Parent Class:None		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Start Program• Initialize frontend	Collaborators: <ul style="list-style-type: none">• LoginPage• AccountManager

Class name: Manager

Parent Class:		
Subclasses: <ul style="list-style-type: none">• AccountManager• ACSManager• PicksManager• QuestionsManager• NotificationsManager	Responsibilities: <ul style="list-style-type: none">• getUserId• Login• Current user• boolean loggedIn	Collaborators: <ul style="list-style-type: none">• AccountManager• ACSManager• PicksManager• QuestionsManager• NotificationsManager

Class name: AccountManager

Parent Class:Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Account recovery• Register• Delete account	Collaborators: <ul style="list-style-type: none">• Manager• Main

Class name: ACSManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Current Score• Get history• Breakdown	Collaborators: <ul style="list-style-type: none">• ACS• PicksManager• TriviaManager• DebateManager

Class name: PicksManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• ViewPastpicks• UpdatePicks• DeletePicks• CheckPicks	Collaborators: <ul style="list-style-type: none">• QuestionsManager• ACSManager• NotificationsManager

Class name: TriviaManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Start Trivia• Send invitation to opponent• Keep track of score• Check if answer is correct• Decide who won/lost and distribute ACS accordingly	Collaborators: <ul style="list-style-type: none">• ACSManager• QuestionsManager• NotificationsManager

Class name: DebateManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Send debate question to users accordingly• Decide who won debate and give ACS• Keep track of votes	Collaborators: <ul style="list-style-type: none">• QuestionsManager• ACSManager• NotificationsManager

Class name: QuestionsManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Get random question of certain type• Create list for trivia questions• Delete question• Add new question• Debate• Daily Question	Collaborators: <ul style="list-style-type: none">• TriviaManager• DebateManager

Class name: Questions

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Store trivia questions for each tier• Store debate questions for each tier• Getters and setters	Collaborators: <ul style="list-style-type: none">• QuestionsManager

Class name: NotificationsManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Organize list of notifications• Delete notification• Add notification	Collaborators: <ul style="list-style-type: none">• TriviaManager• DebateManager• PicksManager• Notifications• OpenCourtManager

Class name: Notifications

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Store Notifications of a user with their different types• Unanswered debate questions• Trivia requests• Unseen responses to discussion posts	Collaborators: <ul style="list-style-type: none">• NotificationsManager

Class name: RadarManager

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Getters and setters• Add to radar• Delete from radar• Change top 3	Collaborators: <ul style="list-style-type: none">• ProfileManager• ProfilePage• RadarPage• Radar

Class name: Radar

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Stores ACS score of top 3• Stores list of all people following in radar• Getters and setters	Collaborators: <ul style="list-style-type: none">• RadarManager

Class name: ACS

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Store ACS score and its breakdowns• Getters and setters	Collaborators: <ul style="list-style-type: none">• RadarPage• ProfileManager

Class name: ProfileManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Getters and setters for most profile details:<ul style="list-style-type: none">○ Username○ Email○ Password○ Profile Picture○ etc.	Collaborators: <ul style="list-style-type: none">• RadarPage• AccountManager

Class name: OpenCourtManager

Parent Class: Manager		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Order list of posts by new, top, best• Search posts by name	Collaborators: <ul style="list-style-type: none">• Posts• AccountManager• NotificationsManager

Class name: Posts

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Have access to database of posts• Get from database• Add to database• Delete from database	Collaborators: <ul style="list-style-type: none">• OpenCourtManager

Frontend Classes

Class name: Component

Parent Class:		
Subclasses: <ul style="list-style-type: none">• RadarList• BottomNavigation• TopNavigation	Responsibilities: <ul style="list-style-type: none">• Flutter related code that allows the class to be used as a component in pages.	Collaborators: <ul style="list-style-type: none">• RadarList• BottomNavigation• TopNavigation

Class name: RadarList

Parent Class: Component		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Stores Data on the view of the RadarList component• Calls the Radar class functions when opening the RadarPage	Collaborators: <ul style="list-style-type: none">• RadarPage• Radar• AccountManager• Component

Class name: BottomNavigation

Parent Class: Component		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Stores the view of the BottomNavigation component, and calls the respective Page when the buttons are pressed.	Collaborators: <ul style="list-style-type: none">• ZonePage• ProfilePage• LivePage• Component

Class name: TopNavigation

Parent Class: Component		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Stores the view of the TopNavigation component, which has a back button and a settings button.• Calls the respective Page when the buttons are pressed.• Also has the name of the current Page	Collaborators: <ul style="list-style-type: none">• SettingsPage• Page• Component

Class name: LoginPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays username and password boxes• Displays a forgot password button• Calls AccountManager classes when the "Login" button is called	Collaborators: <ul style="list-style-type: none">• Manager• RegisterPage• ForgotPWPage

Class name: RegisterPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays boxes where users enter information needed to register	Collaborators: <ul style="list-style-type: none">• AccountManager• LoginPage• ProfileManager• OpenCourtPage

Class name: ForgotPWPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Change/Update password after verification from Profile	Collaborators: <ul style="list-style-type: none">• LoginPage• ProfileManager

Class name: ZonePage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Display buttons that link to the 4 activity pages	Collaborators: <ul style="list-style-type: none">• OpenCourtPage• TriviaHomePage• DiscussionPage• PicksPage

Class name: PicksPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays teams in list and bracket format• Allows drag and drop between teams to order picks	Collaborators: <ul style="list-style-type: none">• ProfileManager

Class name: OpenCourtPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays posts with title and text of topics posted by users• When a post is clicked opens the post in a separate page• Allows users to create a post of their own with a click of a button	Collaborators: <ul style="list-style-type: none">• CreatePostPage• PostPage• LoginPage• OpenCourtManager• ProfilePage

Class name: CreatePostPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays text box for user to enter title and post content	Collaborators: <ul style="list-style-type: none">• OpenCourtPage• OpenCourtManager

Class name: PostPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays the post that was clicked on in detail	Collaborators: <ul style="list-style-type: none">• OpenCourtPage• OpenCourtManager• ProfilePage

Class name: TriviaHomePage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays buttons that give the user the option to play alone, against someone in their radar list, or a stranger	Collaborators: <ul style="list-style-type: none">• TriviaPage• TriviaAnswersPage

Class name: TriviaPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays questions from the user's tier• Either gives the user four answers to choose from or a text entry line for their answer• Has countdown timer (14 seconds per question for solo trivia, 10 seconds for head to head trivia)	Collaborators: <ul style="list-style-type: none">• TriviaHomePage• TriviaAnswersPage• TriviaManager

Class name: TriviaAnswersPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays the correct answer for the trivia question• Updates the ACS scores accordingly	Collaborators: <ul style="list-style-type: none">• TriviaPage• TriviaManager• ProfilePage

Class name: DiscussionPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays users comments and discussion messages	Collaborators: <ul style="list-style-type: none">• ProfileManager• DebateManager• ProfilePage

Class name: SettingsPage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays and inputs for profile details• Logout button	Collaborators: <ul style="list-style-type: none">• ProfileManager

Class name: ProfilePage

Parent Class:		
Subclasses:	Responsibilities: <ul style="list-style-type: none">• Displays details on the user such as their name, ACS, ACS history• Shows Radar list of top 3 followers• Display top picks and past picks	Collaborators: <ul style="list-style-type: none">• RadarPage• PicksPage• ACSManager• RadarManager

Class name: RadarPage

Parent Class:		
Subclasses:	<p>Responsibilities:</p> <ul style="list-style-type: none">• Displays the ACS score of users being followed• Calls the ProfilePage to view a specific user's profile with its ACS score	<p>Collaborators:</p> <ul style="list-style-type: none">• ProfilePage• RadarManager