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**Survey App interactions between classes.**

This survey app has many interactions needed for everything to function properly. We have classes that interact with one other to get specific parts done.

We first have our user class which oversees all our Users. This class interacts with students and admin as they inherit from it and share user information. Because they are subclasses once admin or student supply the information needed, they can branch out into their classes and take different actions. The user class also interacts with survey queue and question of the day, this interaction allows users to view available surveys and question of the days. In addition, the user class interacts with our result class to allow users to view the voting poll for the question of the day.

For our admin to take specific actions it also needs to interact with certain classes. The first interaction this class would have could be with the question class, for questions to be created the admin would need to supply the required data. Once the question is created, the admin would need to save it, which would require interaction with the backlog class. The admin’s interaction with the backlog would allow the admin to save questions and post questions of the days, add questions to the survey queue and more. If the admin did want to add questions in the backlog to the queue this would require interaction between the admin and the survey class. Once the admin supplies all the data needed, like the title of the survey and more than the admin would be able to add the question to the survey queue.

Because the admin class can do specific actions, post a question of the day that means our Backlog also has interactions. The back log class interacts with the Question of the day (QOD) class, in order to post a QOD. This class also interacts with our survey class, as well as our survey queue. For a saved question in the backlog to be added to the queue it requires specific information that the admin would supply. Once the information is supplied via admin and the question can be added to that survey.

Since question of the days would require a response the QOD class interacts with our result class, through this interaction we can capture the results from a student and calculate a voting poll. The Survey Queue class works very similarly when it comes to capturing the student's response. The survey queue has an interaction between both the results table and the answer table depending on the question type a response for every question would be saved in either or class.

Our result and answer class also work very similarly. Once a response from the student is saved in either one of these, these classes both interact with our completed class once the QOD and survey are closed (meaning no longer accessible to user) to display the question of the day and or survey that are saved and completed.

And lastly, the completed class interacts with our user class to display the final voting poll and completed QOD and surveys to the users.