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<center>Team 12 Blackbox API Definition</center>

The backend framework we have chosen to use is Django. Django is a python oriented framework that will seamlessly allow us to communicate between the frontend and backend. Consequently, the database we will utilize will be MySQL due to its flexibility and ease of use. Inside our database, we will house the judge scores pertaining to each poster and it will be organized in an educational hierarchy system that ranges from Bachelors students, Masters students, and PHD students.

Once the judge scores have been inputted from our HTML page, they will be sent to our relational SQL database in which it will be saved on a server. From there, we will use Django to communicate with the front end user to display their results. The API we will implement will be a Web Browsable API commonly known as the Django REST Framework (DRF). We will have one judge for each category (B.S, M.S, P.H.D) and their scores will be sent to the backend database.

Another common use of the Django REST Framework (DRF) is its authentication policies that include packages for OAuth1 & OAuth 2. This can be used to store our judge login credentials (username/emails and passwords).