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Project 1

Our code for this project interacts with the NCBI databases to fetch data about selected organisms and generate appropriate cards to represent them. The code consists of two main components:

* The Scraper utilizes BioPython to query NCBI and fetch data from the “genome” and “nucleotide” databases. Furthermore, a Google Image Search is performed to obtain URLs to pictures of each specified organism. These data are assembled into an Entry object which represents one organism.
  + The scraper supports two access methods – one simple one to fetch a specified number of Entries, and one to fetch a specific list of entries (by accession number).
* The HTMLGenerator accepts Entry objects and generates CSS/HTML code to represent the cards.

Bennett wrote the Scraper and Niraj wrote the HTMLGenerator. The Entry object was a collaborative effort.