Thus far I have created the code for the text readouts, reviewed the code developed by Reese, carried out the planning for subsequent meetings with Dr. Carini, and commented the code for the interface. I expect to spend much of the upcoming days researching star evolution data for the database as well as for the points that will remain stationary within the HR diagram with Reese’s guidance. Many helper functions will be written for each individual star mass because it is highly unlikely that there will be a linear relationship between any of the variables that would make the interface very simplistic. These would include a function for the exterior graphic, which would have to alter the color of the sphere as well as the radius. The interior graphic would need functions to control the number of disks, their precedence, and their colors. The HR diagram graphic would need to have the temperature and luminosity of the star accessible to it, so the point can be plotted and adjusted throughout the star’s evolution. The readouts would need almost all of this data accessible to it. Furthermore, the interface must accommodate a star mass-choosing functionality. I will be developing code while also reviewing Reese’s code to alleviate any bugs that may arise (as is the case with any person’s code). All the while, he will be doing the same (except he will be reviewing my code).

Signature:

Karthik Boyareddygari

Karthik Boyareddygari