Statement of Karthik’s Contribution

Towards the beginning of this project, I dealt with the research into the differential equations concerning stellar evolution, which was later abandoned for the database method. I have kept up with the code on a regular basis (once a day) and edited anything that may have been problematic for Reese. I also wrote the colorFunction, connect (the generalized form that was applicable to any number of equally sized lists), alter (when it was still in use), and created the user interface. I created the original text readout and found out how to reverse the x-axis in the HR-diagram, which was then used by Reese to scale the y-axis logarithmically. I also figured out how to make the 0.1 and 0.5 MSun stars fade to white. I also did formatting of the main interface and the graphics within it. I did the first work with converting our lists into associations as well as accessing the data within the associations. I have commented the code wherever it seems to be lacking. I have written up and edited documents within our progress reports as well as written up and edited slides in the presentations. I have met with Dr. Carini to discuss the project and the differential equations (when they were still being considered). In the first half of the project time (3/4 into the semester), I spent about 3 hours per week researching the differential equations and doing small things with the code. In the weeks after that but before the week preceding finals week, I spent about 4 hours per week looking over the progress of the project and editing/writing the code. In the week before finals week and finals week, I have spent about 10-12 hours per week writing/editing the code.

Karthik Boyareddygari