Karnkumar Dalmia

Professor Kosbie

15-112 Term Project

December 10th 2015

Timesheet For Term Project

**Week 1 (November 15th – November 21th):**

* Testing out different bare bones modules (November 20th) (2 hours)
* Playing around with Mouse Motion, click and drag (November 21st ) (2 hours)
* Building a basic circuit board with a basic side panel (November 21st) (4 hours)

**Week 2 (November 22nd – November 28th):**

* Finish drawing up board with a complete side panel (November 22nd) (3 hours)
* Figuring out how to click and snap elements onto the board – this requires me to create a class for all circuit elements (4 hours)
* Determining how to select a circuit element (create 9 data.isSelected for each element and whenever on is true, say a data.resistorisSelected is true, snap a resistor onto the board. (4 hours) (November 26nd )
* Determine how to rotate and delete circuit elements. This required a lot of time and more draw functions (November 27th) (4 hours)
* More time devoted to creating circuits to snap correctly onto the board (this was very difficult because elements would not snap on the board correctly, which caused problems (November 28th ) (4 hours)

**Week 3 (November 29th – December 5th):**

* Implemented the 2D list to find v0, i0, iINFINITY, and vINFINITY of all the circuit elements within a simply circuit (November 29th) (4 hours)
* “Ok, a 2D list is not a good representation of data for parallel circuits. Karn, you have to use recursive backtracking to store information about parallel circuits” – Julia. “Wait, what?!?” – Karn.
  + Time devoted to determining how to even begin creating a recursive dictionary (December 2nd) (4 hours) – I did this mapping on paper.
  + Worked on creating a recursive dictionary for dummy elements on a separate file. This was very hard because it was almost like maze solver. (December 3rd) (6 hours).
* Ok, I could now build a recursive dictionary on a dummy board. Now, I implemented that onto the actual circuit. (December 5th )( 4 hours)

**Week 4 (December 6th – December 10th):**

* Devoted time to unfolding the dictionary and solving parallel circuits, and series & parallel circuits. (December 6th )( 4 hours)
* Now, the program works, but only for completely legal circuits. It crashed every time I inputted an illegal circuit. Probably should create an isLegal for unwanted circuits. In case you wondered, no I was not happy when my program crash in front on my friends. (December 8th )( 4 hours)
* I thought I had run out of time for transient analysis. However, it was actually not too hard to implement. I implemented a transient analysis and a help screen pretty quickly (2 hours + 1 hour) (December 9th)
* Final polishing and cleaning up program before video presentation. It was around midnight so I did this on “two days” (December 9th + December 10th ) (2 hours)