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CSE 205

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25 April 2021

### Write-up

For our final project, our group started by making the GUI outline and making sure it contains all of the necessary requirements for the program, such as a shopping page, a checkout, pending orders, and item modifications. We then submitted our plan for the milestone of the final project.

After we figured this out and had all of the requirements, we began working on the code. Something we struggled with was figuring out what we had to have on each GUI screen as well as how to implement it. We resolved this by all meeting together on zoom and figuring out what the project needs to display as well as looking at old projects that implemented GUI's and using the code as a guide. Our group did well in communicating with one another what needs to be done as well as setting up times that we can all work on the project together.

Our code implements methods such as try-catch statements, if-statements, for loops, and while loops. These can be seen in almost all of our classes. As part of our GUI screens, we implemented action listeners and different screens to allow easy navigation for the user. We also have customer information stored in a database using postgres.

The first part of the code that we worked on was the login screen. Our group worked on this part of the project together then split up the work from there. Emmanuel worked on the create account and shopping page, Abdulelah worked on the checkout, Stephanie worked on item modifications and Basama did the logout screen and pending orders. After this, Emmanuel did the video and Stephanie did the write-up. Once this was all worked on, our group came together to work on the GUI's, database, and algorithms.

Working with the postgresql database was one of the more difficult tasks for this project. One of the more challenging events was retrieving an array from the table that would contain the users shopping cart list. Once the arrays were properly retrieved some algorithms that were made could be used to update the items within the database. Emmanuel was the one that handled all the database side alongside many of the algorithms.