**PROJECT PROGRESS REPORT - CS5200**

1. Please use the project proposal as your starting point for the progress report. This progress report is an evolution of the project proposal. Please update your project proposal to answer all questions posed in the proposal’s feedback. (1 point)
   1. Can the app be used by multiple devices/household members? Will changes made by one member be visible to the others? Will the changes/updates be performed such that it preserves data accuracy and consistency for all users ?
   2. Related to the above point consider building a notification system from the App ?

The system already has a notification system. When the items are about the expire, then the items are going to be automatically added to the expired list. We can create a message whenever the trigger is invoked.

* 1. Does the app allow ordering items from the vendor ? Would the promotions be applied on ordering?
  2. Are you going to consider multiple vendors? Order from a given vendor depending on the promotion for that week? Once the order is received, are the quantities of the items going to be updated.
  3. What about storing the history of previous transactions, consider using this information on both the vendor side and consumer side.
  4. Make every effort to have a well-functioning backend, with enough attributes to capture the workflow for all the use cases, implementing complex business rules and normalizing your databases. Ensure relevant checks are implemented to ensure data accuracy and consistency. Make use of SQL functions, triggers, stored procedures wherever appropriate.

2. An UML diagram of the database which you will be using for the project. This diagram should contain attributes, entities (at-least 8-10 entities), relationships, multiplicity, and primary/foreign keys. You can use any diagramming tool you prefer. One that is freely available is [https://creately.com/ .](https://creately.com/) You should plan on using this image during your class project presentation as well as in your final project write-up (where it will be graded more strictly and worth more points). (3 Points MySQL , 4 Points NoSQL).

3. An EER diagram converting the UML diagram to a relational schema. Please use the MySQL

Modeling tool. If you are using NoSQL you do not need to submit this. (1 point MySQL)

4. A brief step by step user interaction of your application, including all CRUD operations (create, read, update, delete) you plan on implementing for the project. The description should list the steps a user would require to perform in order to use your application. A flow chart is sufficient. For students who know what an activity diagram is, please include an activity diagram **INSTEAD OF** the steps mentioned above. (3 Points)

If you wish to learn about activity diagram, here is one good link to read

<http://www.sparxsystems.com/resources/uml2_tutorial/uml2_activitydiagram.html>

Here is a link of an activity diagram for an order delivery system:

<http://www.c-jump.com/CIS75/Week10/images/activity_process_order.png>

5. A final decision on the technology used to create the project. Please include details such as toolkits, libraries, backend languages, front end languages (name and version), web technologies and database connectivity. Please make sure that you include the specifications in a separate section titled **Technical Specifications** within the progress report. If you included the specifications within your original proposal reiterate them here (cut and paste of the text is fine). (2 points)

**Please create one document that contains all of the above listed deliverables. A zip file is not appropriate.**