

Individual Demo Grading- G2

(Joanne Yong, Rene Sanchez, Miguel Avila, Chimezirim Amagwula, Juan Sarabia, Cameron Tillett)

1. program code writing—list explicitly which use cases or user interface screens were programmed by individual team members
 - UC1- function for create cattle info was done by Juan Sarabia
 - UC2- function for view product details was done by Chimezirim Amagwula (but was hard coded, not connected to db)
 - UC8- function for add slaughter info was done by Joanne Yong
 - UC5- function for add product info was done by Rene Sanchez
 - UC7- function for generate reports was done by Miguel Avila

2. unit testing‡ (includes writing the program code to run unit tests and analyzing their coverage)—breakdown by individual team members, applies to all remaining items
 - Unit testing function for UC1- Miguel Avila
 - Unit testing function for UC2- ChimezirimAmagwula (but visually only as the information connected function to the QR code can only be displayed when the QR is scanned).
 - Unit testing function for UC5- Rene Sanchez
 - Unit testing function for UC7- Miguel Avila
 - Unit testing function for UC8- Joanne Yong
 - Generation for overall coverage of unit testing functions: Miguel Avila, Joanne Yong
 - Code for teardown approach- Miguel Avila

3. web page design (HTML, XML, if applicable)
 - Cattle profile screen- Rene Sanchez
 - Create cattle profile screen- Rene Sanchez
 - Add packaging info screen- Joanne Yong
 - Add slaughter info screen- Joanne Yong
 - Search Cattle Profile screen- Rene Sanchez

4. integration and integration testing, cross-platform issues, if you are developing for desktop and smartphone‡

- Cross platform integrations were done through making the interface screens mobile and desktop friendly, through using React's MUI library. These were done by Rene Sanchez and Joanne Yong.
 - Integration testing code- Miguel Avila

- 5. testing algorithms that implement mathematical models, non-functional requirements, or user interface requirements stated in your Report #1‡
 - Doesn't apply to our project.

- 6. Debugging
 - Debugging for priority UC functions were done by: Miguel Avila, Joanne Yong and Rene Sanchez
 - Debugging for unit testing code was done by Miguel Avila

- 7. program documentation, including code comments, technical documentation, user documentation, etc...‡
 - Code comments: Miguel Avila
 - Program Documentation: Joanne Yong, Miguel Avila
 - Technical documentation: Joanne Yong
 - User documentation: Joanne Yong and Rene Sanchez

- 8. designing database tables and maintaining the database (if applicable)
 - Designing of dbtables: Joanne Yong
 - Maintenance of db: Joanne Yong

- 9. data collection (if applicable)‡
 - writing scripts or programs for data collection (if applicable)‡
 - Scripts were not written as Firebase is a non relational database which doesn't use SQL scripts. Instead these were done through connecting created variables in React functions and linking them to the specific db field names with the use of the default function "getDocs" which allows for the program to read from the db. The was done by Joanne Yong and Juan Sarabia

10. brochure/flyer preparation—informativeness and general appearance of the product brochure

- Brochure was designed and created by Joanne Yong

11. slides preparation—informativeness and general appearance of the slides

- Slides were created by Joanne Yong

12. project management, including

- opening accounts on public websites for the project (Miguel Avila created the github repository where we will be posting our demo documentations. Joanne Yong and Rene Sanchez will be creating the Wix site to add our PowerPoint slides, Reports, and other Useful information relating to our project)
- organizing meetings (Meetings are held every week on Zoom to view progress of the reports and system and to discuss and resolve problems we have with the system. If most are unable to meet due to work we meet through Whatsapp discussions) These meetings are initiated and created by Joanne Yong
- coordinating activities (Assignment of tasks for reports and system activities are done by Joanne Yong)
- system evaluation with external users (if applicable) (Users should be able to scan QR codes from meat produce packaging to access product/cattle information. This is an external function, so customers do not have direct access to the traceability system but they do interact with a feature that our system offers)
- installing and maintaining the developer's resources (For the maintenance of our resources especially our code versions, we use the Github repository created by Miguel Avila to push and pull origins of code).
- IDE- usage of Node.js (an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser) and React (open-source front-end JavaScript library for building user interfaces based on UI components) in Visual Studio Code (a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git).
- Database- Firebase Firestore Database (a NoSQL document database built for automatic scaling, high performance, and ease of application development.)

13. Demo 1 Presenters:

- PowerPoint- presented by Cameron Tillett
- Unit testing code and Running unit tests and Data processing code- presented by Miguel Avila

14. Demo 2 (Presenters: Miguel Avila, Chimezirim Amagwula

- UI/ frontend development- Joanne Yong, Rene Sanchez
- Backend linkage screens: Miguel, Joanne, Rene
- QR- Chimezirim Amagwula, Joanne Yong, Rene Sanchez
- Backend database connections- Joanne Yong, Juan Sarabia

15. Report 3

- Changes/updates- Joanne Yong, Rene Sanchez, Chimezirim Amagwula
- New additions- Joanne Yong, Rene Sanchez, Chimezirim Amagwula

16. e-Archive: Joanne Yong, Miguel Avila

DEMO 1 Contribution Table

Responsibilities	Member Name					
	Joanne	Rene	Miguel	Chimezirim	Juan	Cameron
Coding (25pts)	20%	20%	40%	10%	10%	
Unit Testing (21 pts)	10%	10%	80%			
Web Design UI (6 pts)	40%	60%				
Integration Testing (10 pts)			100%			
Debugging (5pts)	30%	30%	40%			
Documentations (6pts)	50%	50%				
Database & Data Collection (8pts)	80%				20%	

Brochure (3.5 pts)	100%					
Slides (3.5 pts)	95%					5%
Project Management (12 pts)	100%					

DEMO 2 Contribution Table

Responsibilities	Member Name					
	Joanne	Rene	Miguel	Chimezirim	Juan	Cameron
Coding (10pts)	20%	40%	40%			
Functionality (30pts)	20%	35%	30%	5%	10%	3%
Class Design(10pts)	30%	35%	20%	10%		
User Interface Design (10pts)	40%	60%				
Complexity (6pts)	20%	30%	35%	15%		
Database Implementation (10pts)	50%				50%	
Flyer (2pts)	100%					
Presentation (10 pts)	100%					
Project Management (12 pts)	100%					

References

Google. (n.d.). *Firestore documentation* | *google cloud*. Google. Retrieved April 6, 2022, from <https://cloud.google.com/firestore/docs#:~:text=Firestore%20is%20a%20NoSQL%20document,describes%20relationships%20between%20data%20objects>

Wikimedia Foundation. (2022, April 3). *Visual studio code*. Wikipedia. Retrieved April 6, 2022, from https://en.wikipedia.org/wiki/Visual_Studio_Code

Wikimedia Foundation. (2022, April 4). *React (JavaScript library)*. Wikipedia. Retrieved April 6, 2022, from [https://en.wikipedia.org/wiki/React_\(JavaScript_library\)](https://en.wikipedia.org/wiki/React_(JavaScript_library))

Wikimedia Foundation. (2022, March 23). *Node.js*. Wikipedia. Retrieved April 6, 2022, from <https://en.wikipedia.org/wiki/Node.js>