

## Team Six Deliverable Three

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1	Executive Summary

2	Business and System Context

### 3 Stakeholders

#### 3.1 Stakeholder Personas

This section aims to outline all the stakeholders the project has, and their respective concerns and what the team can do to relieve them. This helps the team see the point of view of the potential users and adjust course to best suit them and keep the project on track. Below there is a table which outlines the types of stakeholders, their needs, possible impact, priority, and action required.

Types of stakeholders:

- SP: Sponsors. People who commissioned project to be completed, including the intended people using the application.
- IN: Internal stakeholders. Employees/managers creating the product.
- EX: External stakeholders. People not directly involved but affected by outcome.

#### ID: SP0

Priority: High Impact: High

Persona: Front of house employee

Front of house employees will be working directly with customers and the order management part of the application.

Stakeholders concerns:

Ease of use and speed when selecting options or possibly doing slightly customised orders.

Solution:

Create a clear GUI without unnecessary information.

#### ID: SP1

Priority: High Impact: Medium

Persona: Truck manager

Manages the employees in the truck. Will likely update menus and stock levels in the system. Possibly ordering more stock when necessary.

Stakeholders concerns:

Ease of use when updating items in the application. Clarity of information shown so that they can make informed decisions based on stock levels, sales, etc. They might also want the ability to export/import recipes/stock for use in multiple food trucks.

Solution:

Create an easy to use GUI for displaying information and adjusting stock levels/recipes/prices.

#### ID: SP2

Priority: Medium Impact: Medium

Persona: Truck Owners

Truck owners who are not also truck managers will not necessarily use the software but will rely on their employees to use it.

#### Stakeholders concerns:

Truck owners will need the software to work reliably for their employees to ensure their business has little downtime.

#### Solution:

High coverage of automated tests to ensure high quality and stability.

#### ID: SP3

Priority: Medium Impact: High

Persona: Stock managers

Stock managers will only be interacting with the management side of the system to view and change stock levels.

#### Stakeholders concerns

Ease of use with the management system. Access to financials, and stock. If the system fails the stock management will likely become inaccessible.

#### Solution:

Create an easy to use GUI for displaying information and adjusting stock levels/recipes/price. High coverage of automated tests to ensure high quality and stability.

ID: SP4

Priority: Medium Impact: High Persona: Chef

The chef will be relying on the system to give them orders. Likely won't interact with the GUI directly.

Stakeholders concerns:

Ability to see orders easily whether by notes or screen. If by screen, then an ability to dismiss or mark as complete is necessary.

Solution:

Create an output after each order is finalized that can be sent to the chef and displayed or printed in a given form.

ID: EX0
Priority: Low
Impact: Medium

Persona: Event Managers Stakeholders concerns:

Event managers want the food truck to ensure everyone gets their order so reliability is their priority.

**Solution:** 

Ensure orders are as easy to manage and consistent.

ID: EX1
Priority: Low
Impact: Low
Persona: Council
Stakeholders concerns:

The council wants the food truck to abide by food standards.

**Solution:** 

Add a feature which allows tracking of food expiry dates.

ID: EX2
Priority: Low
Impact: Low

Persona: Stock suppliers Stakeholders concerns: Reliable stock order requests.

ID: EX3
Priority: Low
Impact: Medium
Persona: Accountant
Stakeholders concerns:
Access to organised financials.

Solution:

Make the management side easy to read and simple to export.

ID: IN0

Priority: Medium Impact: High

Persona: The team

The team working on the project

Stakeholders concerns:

Meeting required standards and creating a product that fills the needs of the clients.

Solution:

Frequent interaction with stakeholders and good project management.

### 3.2 Foodtruck/Cafe Survey

#### Reboot Cafe

- 1. What are the 3 most important features of a POS/FOH program?
  - It just needs to do its job in a reliable manner.

- 2. What do you like/dislike about your current system?
  - No likes or dislikes, "it works" and that's all that really matters.
- 3. If you could have a dream system, what features would you want?
  - The system is easy to use (and simple to learn).
  - Eftpos connectivity is almost vital.
- 4. If you could have a dream system, what features would you not want?
  - No detrimental features ("It just needs to work").
- 5. How do you run inventory management?
  - System keeps track of what is sold so they know what needs to be restored.

Notes: Looking at their current system they not only had separate tabs for drinks, food and misc, but they also subdivided each page by colouring each type a different colour. (ie. chilled drinks where blue and coffees where brown)

#### Reboot Cafe

- 1. What are the 3 most important features of a POS/FOH program?
  - It needs to be fast enough to not keep customers waiting.
  - It needs to be reliable and able to run for a full day with no issues.
- 2. What do you like/dislike about your current system?
  - An end of day tally receipt can be printed to provide a breakdown of the days sales.
- 3. If you could have a dream system, what features would you want? Having the ability to modify prices and other such variables on the job would be a very convenient feature.
  - Being able to export each days sales to a USB drive so they can import to a spreadsheet would be amazing.
- 4. If you could have a dream system, what features would you not want? Not having a daily breakdown would be detrimental.
- 5. How do you run inventory management? Inventory is managed by eye in terms of how much is left at the end of the day and manually deciding if they need more.
- 6. What are the things you find difficult to manage in your business? Managing inventory is a constant struggle

**Notes:** They mentioned having a really good idea of what sells best at different events/locations (ie. they sell effectively no drinks while at university but a lot of dipping sauces, conversely to events where they sell a lot of drinks.) This suggest towards it being potentially easy to tag days by location/event and build profiles on what sells where. It is also worth noting that their current system is a very analog system so many of the features they would want are features that would be expected from a software system.

4 Quality Requirements

Opera	erational / Management			
ID	Description	Acceptance Tests		
Avail	lability			
QR1	Software service needs to be available to the employees at all times when food truck is open / operational. No fatal errors.	System can run for 12 hours without an issue (12 hours because food trucks / small food businesses normally operates for around 10 hours or so).		
Relial	bility (Robust)	normally operation for around 10 notation of 50).		
QR2	Software system should not crash or in general not be erroneous for the duration that the software service is being used.	If customization were made on a food by a customer (e.g no pickles in the burger), once the order has been processed, it should always notify the food staff on that customization.		
Usabi	lity / ease of use			
QR3	GUI should be visually clear, and simple to use by end users. The application must be user-friendly	User should not be presented with more than 7 interactions at a time. User should not require any technical knowledge to use the app.		
QR4	User interface should be easy to remember, and user should know how to use it on subsequent visits.	When the owner adds stock items, it should take < 5000ms to do it. User should not be presented with more than 7 interactions at a time.		
Speed				
QR5	Software functionalities should not take a considerable amount of time to process.	Use case operations should process < 500ms, depending on the type of action the user performs, unless prompted otherwise. E.g When a customer orders food, the order processing time should take < 2000ms.		
QR6	Some functionalities of the software should not take forever to process. However, it doesn't necessarily need to be super fast as well.	When the user checks the sales for the day, the information generated should take < 1000ms to be presented on the screen.		
Maint	tainability			
QR7	Low coupling high cohesion. Code should easily be understood, repaired, or enhanced by other developers for future feature additions	All methods (excluding some GUI methods) should have JavaDoc descriptions		
Flexib	pility			
QR8	This is the ability on how easy our software can adapt to changes made in the future due to requirement changes etc.	When creating a newer and updated version for the software. The modules should have low interdependence with each other. Having a low dependence for software modules makes it easier for developers to add more functionalities etc, to the current version of the system		
Porta	bility			
QR9	This is the ability for our software to be accessed, deployed, and managed regardless of what platform it runs on.	System can be run on different platforms such as lab machines, or home desktop etc. As well as being able to import and export data.		
Scalal	bility			
QR10	The ability for our software to adapt to sudden changes in customer requirements.	System can be run on different platforms such as lab machines, or home desktop etc. As well as being able to import and export data.		

### 5 Use Cases

This section is a list of all possible use cases for the application. The team will use this to build on to create functional requirements which together help create a design for the application. The table below shows a description of a use case, the actors involved in it, the cause for the use case, the action needed as a result and the expected outcome. Note the following table is not ordered.

ID	D '.'	Α	Use cases	M: C	D /	
ID	Description	Actors	Pre- conditions	Main effect	Post- conditions	Category/ package
UC1	Cash posistor	Employees.	Customer	Send prompt	Cash is stored	Front of
OCI	Cash register.	Manager. Owner.	makes and pays for an order.	to open cash register.	in the cash register, cor- rect change is given and the register is closed.	house/ Cheese- burger.
UC2	Add item to order.	Employees. Manager. Owner.	Customer orders an item/items.	Add requested item to the current order.	Item(s) added to the current order and to- tal price up- dated.	Front of house/ Cheese- burger.
UC3	Remove item from order.	Employees. Manager. Owner.	Customer no longer desires a specific item/items in the current order.	Remove undesirable item from the current order.	Item(s) are removed for the current order and total price updated.	Front of house/ Cheese-burger.
UC4	Cancel order.	Employees. Manager. Owner.	Customer no longer wants to order from our truck.	Remove all items from the current order.	All items removed from the current order and total price updated.	Front of house/ Cheese-burger.
UC5	Refund order.	Employees. Manager. Owner.	A customer returns an item that was incorrect and or not up to standard.	Refund the total cost of the returned item.	Complaint is noted and cost of the item re- turned to the customer.	Front of house/ Cheese- burger.
UC6	Special order.	Employees. Manager. Owner.	Customer requests a menu item be modified.	Ingredients used in creation of item changed for this case only.	Chefs are informed of special order/ingredient change.	Front of house/ Cheese-burger.
UC7	Create a menu.	Chefs. Owner.	New menu has been created and needs to be added to the system.	Add new menu to the system.	Menu is ready for use.	Management/Boiled egg.
UC8	Add a menu item.	Chefs. Owner.	Menu needs to be edited to accommo- date for new item(s).	Add an item to an existing menu.	Menu is updated with new item(s).	Management/Boiled egg.
UC9	Remove a menu item.	Chefs. Owner.	Menu needs to edited to remove item(s).	Remove an item from an existing menu.	Menu is updated without removed item(s).	Management/Boiled egg.

	Use cases					
ID	Description	Actors	Pre- conditions	Main effect	Post- conditions	Category/ package
UC10	Edit a menu item.	Chefs. Owner.	An aspect of an existing menu item has changed.	Change details of an item on an existing menu.	Menu is updated with new information about the item.	Management/Boiled egg.
UC11	Add recipes.	Chefs. Owner.	New recipe for a given menu item is created.	Add a new recipe to the system.	Recipe is ready for use.	Management/ Onion soup.
UC12	Remove recipes.	Chefs. Owner.	A specific recipe is no longer required.	Remove existing recipe from system.	Recipe is no longer available for use.	Management/ Onion soup.
UC13	List recipes.	Chefs. Owner.	Recipes needed for creation of menu items.	List the recipe for a given menu item.	Recipe is open and readable so the item can be created.	Management/ Onion soup.
UC14	Add ingredients (stock).	Chefs. Owner.	Order of stock has arrived.	Add new items to stock.	The new level of stock is displayed in the system.	Management/ Onion soup.
UC15	Update stock.	Chefs. Owner.	Stock has been used to create menu items.	Update the stock to account for item usage.	The new level of stock is displayed in the system.	Management/ Onion soup.
UC16	List available stock.	Chefs. Owner.	Chefs need to check how much of each item they can create.	View the current level of stock.	The level of stock and quantity of each menu item that can be created is displayed.	Management/ Onion soup.
UC17	Check sales.	Owner.	Business hours have ended and no more sales will be made.	Check the number of sales made on a given day.	The number of sales on the given day is displayed.	Management/ Gumbo.
UC18	Generate sales report.	Owner.	Owner needs a sales record to show potential investors.	Generate formal report detailing sales,costs and profits.	A report detailing sales and costs, profit margins etc is generated with visual aids.	Management/ Ginger crunch.
UC19	Adjust prices.	Chefs. Owner.	The price of a given item is too high or low.	Adjust the price of a given menu item.	Menus are updated to reflect adjustment.	Management/ Onion soup.
UC20	Save Menus.	Chef. Owner.	Menus changes are needed to be saved.	Menus are stored in the system.	Menus that include changes are stored.	Management/ Onion soup.
UC21	Load Menus.	Employees. Manager.	Menus need to be dis- played for customers to view.	Display menus.	Menus are displayed and readable.	Management/ Onion soup.

	Use cases					
ID	Description	Actors	Pre-	Main effect	Post-	Category/
UC22	View Histori-	Owner.	Conditions Owner wants	Diamless gales	conditions The sales	package Management/
0022	cal Sales.	Owner.	to see the	Display sales made on the	from the	Management/ Ginger
	car pares.		sales for a	given	desired day	crunch.
				Siven	are displayed.	
UC23	Place Order.	Employees.	Customer	Commit order	Stock levels	Front of
		Manager.	has finished	to the system.	adjusted and	house/
			ordering.		preparation	Cheese-
					of items	burger.
UC24	Add Ingredi-	Chefs.	New ingre-	Add new	begins.  New ingre-	Management/
0024	ents.	Owner.	dients used	ingredients to	dients added	Onion soup.
		0 111011	to create an	the system.	to the system	omon soup.
			item.	v	and ready for	
					use.	
UC25	Remove	Chefs.	Ingredients	Remove in-	Existing in-	Management/
	ingredients.	Owner.	no longer used to create	gredients from the	gredients are no longer in	Onion soup.
			an item.	system.	the system.	
UC26	Add item	Employees.	Customer or-	Item is not	Item is only	Front of
	when stock	Manager.	ders an item	able to be	added if the	house/
	is (critically)		which has	added to	stock is avail-	Cheese-
	low.		critical low	order.	able.	burger.
UC27	Check for	Employees.	stock level.	Display an	Information	Front of
0027	number of	Manager.	Employee is unsure of	Display an approximate	displayed on	house/ onion
	servings.	Wallager.	how many	number of	the screen	soup.
	, and a grant of		servings of an	servings left	about the	
			item can be	based on	number of	
			created with	stock level.	servings that	
			given stock level.		can be made.	
UC28	Add item to	Employees.	An order has	Order placed	Order is	Front of
0020	production	Manager.	been placed	at the end of	ready to be	house/
	queue		by the cus-	the produc-	served.	Cheese-
			tomer and	tion queue.		burger.
			needs to be			
UC29	D	D1	prepared.	0-1 :	0-1	D
0029	Remove item from produc-	Employees. Manager.	An order has been	Order is removed from	Order is given to the cus-	Front of house/
	tion queue.	Wanager.	prepared.	the top of the	tomer and	Cheeseburger
	4.00.000		FF	production	preparation	0
				queue.	of the next	
					order can	
UC30	Print cus-	Employees	An anda-	Order sum-	begin.	Front of
0030	Print cus- tomer order	Employees. Manager.	An order has been	Order sum- mary receipt	Receipt is given to the	house/
	receipt.	1,10110201.	processed.	is printed.	customer.	Cheese-
	1. 1.			1		burger.
UC31	Edit recipe.	Chefs.	Change in	Change	New recipe is	Management/
		Owner.	recipe oc-	recipe in	stored in sys-	Onion soup.
TICOO	D-1-4	O M	cured.	system.	tem.	Manage
UC32	Delete a menu	Owner. Manager	Existing menu in the	Remove the existing menu	Menu is removed, with-	Management/ Boiled egg.
		agei	system must	in the system.	out errors.	Doned egg.
			be removed.		340 311015.	
	1	l .		I.	I .	l .

6	Functional Requirements

UC1	Add money to the cash register	\$200 in the cash register
UC2	Remove money from the cash register	\$200 in the cash register
UC3	Too much money is removed from the cash register	\$30 in the cash register
UC4	Add an item to the current order	One burger in the current order
UC5	Remove an item from the current order	One burger and one chips in the current order
UC6	Cancel the current order	The current order contains one burger and one chips
UC7	Refund the total cost of an order	The cost of the order that is to be refunded was \$15 and there
UC8	Customise a menu item	The current order contains one burger
UC9	Add a new menu to the system	There are zero menus in the system
UC10	Add an item to an existing menu	A menu contains zero items
UC11	Remove an item from an existing menu	A menu contains one item, Burger
UC12	Edit an item	Burger doesn't contain tomatoes
UC13	Add a recipe to a menu item	Burger doesn't have a recipe
UC14	View the recipe for a menu item	Recipe for a burger needs to be viewed
UC15	Add stock items	5 buns are currently in stock
UC16	Update stock when stock is used	2 chips are currently in stock
UC17	Item with no stock is ordered	0 chips are currently in stock
UC18	View available stock	Levels of stock need to be viewed
UC19	View daily sales	Daily sales need to be viewed
UC20	Generate sales report	Sales report is needed
UC21	Change price of item	Price of burger is \$10
UC22	Save menus to external file	Menus need to be exported
UC23	Load menus from an external file	Menus need to be imported
UC24	View sales from previous days	Previous days sales need to be viewed
UC25	Confirming an order	Current order contains one burger and one chips, total cost is

# 7 Acceptance Testing

8 Deployment Model

9 Data Modelling

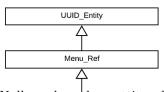
### 10 Technical Design

From the analysis of quality requirements it was revealed that Reliability(QR), Maintainability(QR) and Flexibility(QR) were all deemed to be of high or medium priority. These factors are influenced by the software having low-coupling and robust systems. Investing time on technical design and architecture at the start of the project allows for reduced cost of refactoring in the long term; This will be mentioned more under Design Post-Mortem. For this reason it was deemed an important focus on architecture throughout the project.

#### 10.1 Data Model

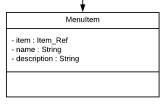
Featured below is the UML Class diagrams of model objects to be implemented in Java. They were made from analysis of Data Modelling and modified to meet the needs of Functional Requirements. This model does not represent the full system but just the core classes in the model. All attributes can be assumed to have getters or setters unless stated otherwise and the functions mention are examples of additional functionality and may not be reflective of the final system completely. Each of these core classes inherits from UUID Entity that gives the object a unique identifier that is used internally within the system that is discussed further in Section 10.2.

#### 10.1.1 Menu



Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesunda porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus vive ra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quante sed, diam turpis, mo estie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accentistati site, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.



- 10.1.2 Item
- 10.1.3 ItemTag
- 10.1.4 StockInstance
- 10.1.5 Order
- 10.2 Architecture
- 10.3 Design Post-Mortem

Figure 1: This is a figure caption.

## 11 GUI Prototypes

Hello i am gui

Table 1: Summary of exposures to different risks that could occur during development

Team Risks

ID	Description	Likelihood %	Impact 1 - 10	Exposure
R-01	Team Conflict	10%	1	0.1
R-02	Unfamiliar Development Tools	20%	2	0.4
R-03	Unfamiliar APIs/libraries, various programming skill levels	90%	5	4.5
R-04	Miscommunication with lecturers	80%	5	4
R-05	Loss of data, problem with import of data	20%	6	1.2
R-06	Product does not agree with stakeholders expectations	90%	10	9
R-07	Code written by individual team members not readable by others	70%	4	2.8
R-08	GitLab, Google Drive, etc. become unavailable	2%	7	0.14
R-09	No Internet	5%	6	0.3
R-10	Bug in software e.g. bug says something gluten free when actually it isn't	90%	10	9

Table 2: Summary of consequences to different risks that could occur during development

ID	Consequences	Justification of
R-01	Reduced Productivity	Team has rules
R-02	Reduced Productivity as time spent learning how to use dev tools	Members of the
R-03	Some members limited to certain tasks, may mean some members have to do more work than others	This is the tear
R-04	Doing tasks incorrectly and will have to redo or get a bad mark	The team has v
R-05	Have to re-complete work / manually import	All members of
R-06	Software won't sell (fake world) / bad mark from lecturers (real world)	It is very unlike
R-07	Reduced Productivity / Code has to be re-written	With new tools
R-08	Reduced Productivity, Can't commit new changes, may have to switch platforms	These services
R-09	Can't commit changes to GitLab	Internet is prov
R-10	People could get sick	It is very unlike

### 12 Risks

#### 12 Risks

The risk assessment module analyzes a number of different risks that both the team as well as the operator (user of the software) must be aware of during development and use of the software. Each risk is analyzed by multiplying its likelihood of occurring by the impact of the consequences on the group/user. This allows (low-likelihood, high impact) risks to be compared to (high-likelihood, low impact) risks. Most importantly, the last column of the table indicates how the risk can be avoided altogether, so this table should be referenced regularly.

- 12.1 Team Risks
- 12.2 User Risks
- 12.3 Risks Discussion talk about what risks we have encountered and how we prevented / mitigated their effects, and justify why some values changed

Based on the feedback from the 1st deliverable and the 2nd deliverable it was clear that the risks section was not as extensive as it should have been, and some of the values were not correct e.g. We had the likelihood of team members being unfamiliar with libraries at 30% when really it should have been at 90%. In hindsight, we should have had more than one person deciding on the values for the risk assessment module as it resulted in biased and less thought through values. However time constraints near the end of the deliverable didnt allow for this. Time management was something that definitely held our grade back in the 1st and 2nd deliverable and this is a clear example of that.

For deliverable 2 we changed some of the likelihood values as you noticed and added a 'Justification of liklihood percentages' column too. Below are some examples of some of the risks we actually encountered and how they affected the development of the project.

R-03 - Unfamiliar libraries: This became clear to us very early on in deliverable 2 when using libraries such as JavaFX. Not many members of the group were familiar with it to begin with, even after having completed the JavaFX Lab. This hindered development in some areas where basic GUI functionality actually took a lot longer than expected to get up and running without any bugs.

Table 3: Summary of exposures to different risks that could occur during use of the software User Risks

ID	Description	Likelihood~%	Impact $^1$ - 10	$\mathbf{E}_{\mathbf{z}}$
R-11	Human error (misuse of software)	80%	9	7.5
R-12	Program freezes while processing customer's orders	20%	10	2
R-13	Screen showing the cooks what orders to make is inconsistent with actual order	20%	10	2

Table 4: Summary of consequences to different risks that could occur during use of the software

ID	Consequences	Justification of likelihood percentages
R-11	People could get sick	It is very likely that a user makes a mistake as mistakes happen frequent.
R-12	Angry customers lines get long, lose order	There is a low chance that the system will have a bug that will crash the
R-13	Angry customers	There is a low chance that the system will have a bug with such an integration

R-02 - Unfamiliar development tools: Most members of the team had only used Eclipse from SENG201 for Java projects. Switching over from Eclipse to IntelliJ was hard for some members of the team as the Project and Module SDK settings were playing up, however once we got it working there were no more problems and we concluded that IntelliJ is a lot better than Eclipse. SceneBuilder was also very new for most people, Taran did a lot of the design work for our GUI, so he had to learn how to use it by himself but he got the hang of it pretty quickly and produced an appealing GUI. We used Google Drive to store all of our design documentation as everyone was familiar with it, however we eventually had to switch over to LaTeX which was a new development tool for all of us. As this switch happened towards the end of deliverable 3, in hindsight we should have used LaTeX from the beginning as it is better than Google Drive.

R-08 GitLab, Google Drive, etc. become unavailable: We had the likelihood of this risk at 2%, as it seemed so unlikely as the development tools we were using such as GitLab and Google Drive are run by large companies. We were proven wrong when Google Drive crashed on us. Our design doc was 60 pages and when we had seven people trying to edit it at once, it crashed. Hence we switched our design documentation over to LaTeX which was much more friendly and has much better formatting tools. Connor's laptop also crashed two days before deliverable 2 was due. This was unfortunate, however we mitigated its consequences by making sure we always met where there was a lab computer available for Connor to work on. Hamesh also had a spare laptop that he kindly lended to Connor when we had to meet where there were no lab machines.

# 13 Testing Protocol

1	RowCol1	Row1Col2
2	Row2Col1	Row2Col2
3	Row3Col1	Row3Col2

Table 5: First Table

14 Project Timeline

15 Document Changelog

# Appendices

# A Class Diagram