The Team:

Name	Roles	Contact
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Daniel Scott	Lead software developer API developer	07594875693 daniel.r.scott@students.plymouth.ac.uk skype: danzo111994 (preferred)

Tools:

Tool	Use
Android Studio	Production of mobile applications for delivery staff.
Bitbucket	Online repository and source control.
Lucidchart	Production of ERDs and UML diagrams.
Microsoft Visual Studio	Production of API.
Notepad++ / Atom	Production of website for customers.
NetBeans IDE	Production of desktop application for chef and manager.
SQL Developer	Production of database.
Trello	Project/sprint management.
SQL Map	To test against SQL Injection and database attack

Initial Requirements Analysis & Design

Product Backlog

User stories   ...
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As a system I need to store orders.
☑ 1/4   💡 5

As a customer I want to log in and update my details.
💬 1   ☑ 0/12   💡 3

As a customer I want to complete and track an order.
💬 2   ☑ 0/5   💡 5

As a customer I need to view my basket and remove or add items from the basket screen.
☑ 0/7   💡 3

As a customer need to make a custom pizza.
💬 1   ☑ 0/7   💡 5

As a chef I need to see what orders need to be prepared.
☑ 0/4   💡 3

As a chef I need to update and progress orders as a cook them.
☑ 0/4   💡 2

User stories   ...
51

As a deliver driver I need to see cooked orders.
☑ 0/7   💡 5

As a deliver driver I need to accept and complete deliveries.
☑ 0/10   💡 5

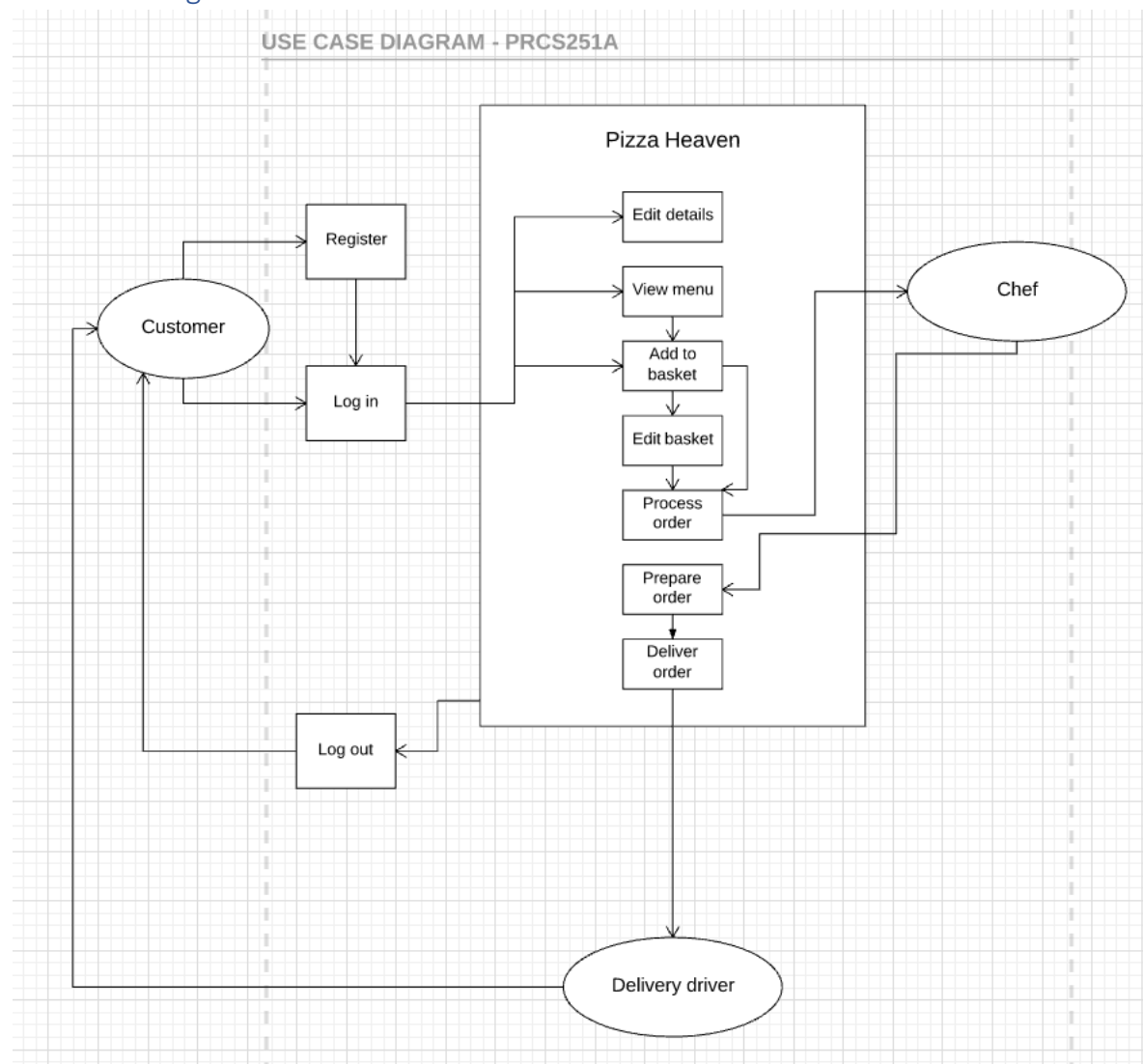**As a delivery Driver I need to log into my account and view my order history.**
☑ 0/9   💡 3

As a delivery driver I need to view accepted orders and contact the customers.
💡 5

As a manager I need to add an item to the Menu table.
💡 3

As a manager I need to update a staff member's information.
💬 1   💡 2

As a manager I need to void an ordered item from an order.
💡 2

Use Case Diagram

USE CASE DIAGRAM - PRCS251A

Pizza Heaven

- Edit details
- View menu
- Add to basket
- Edit basket
- Process order
- Prepare order
- Deliver order

Customer — Register — Log in — Log out

Chef

Delivery driver

Design Level Sequence Diagram

DESIGN LEVEL SEQUENCE DIAGRAM - PRCS251A

CUSTOMER · WEBSITE · DATABASE · KITCHEN SCREEN · CHEF · DELIVERY MOBILE APPLICATION · DELIVERY DRIVER

Registration Form
Registered
Registration Details
Add items to basket
Edit Basket
Check basket
Confirm order (select payment/delivery address)
Add Order
Update display
Select order
Update order status
Update display
Update display
Update display
Accept Delivery Job
Update display
Update display
Collect Order
Delivery
Accept Delivery
Confirm Delivery
Update display
Update display

State Machines Diagram

STATE MACHINE DIAGRAM - PRCS251A
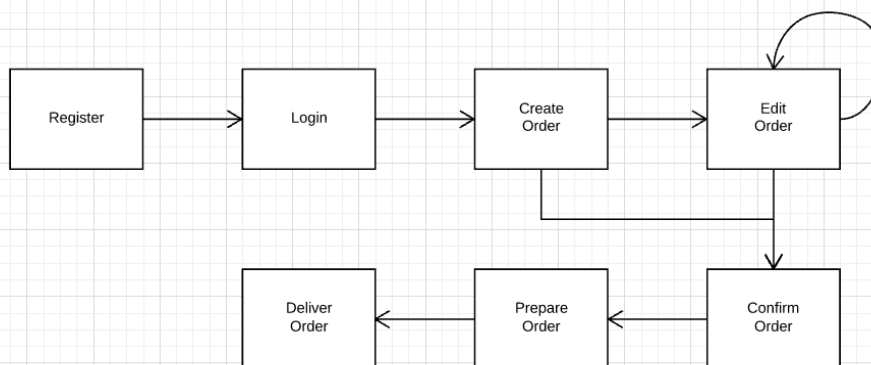
Rich Picture Diagram

RICH PICTURE DIAGRAM - PRCS251A
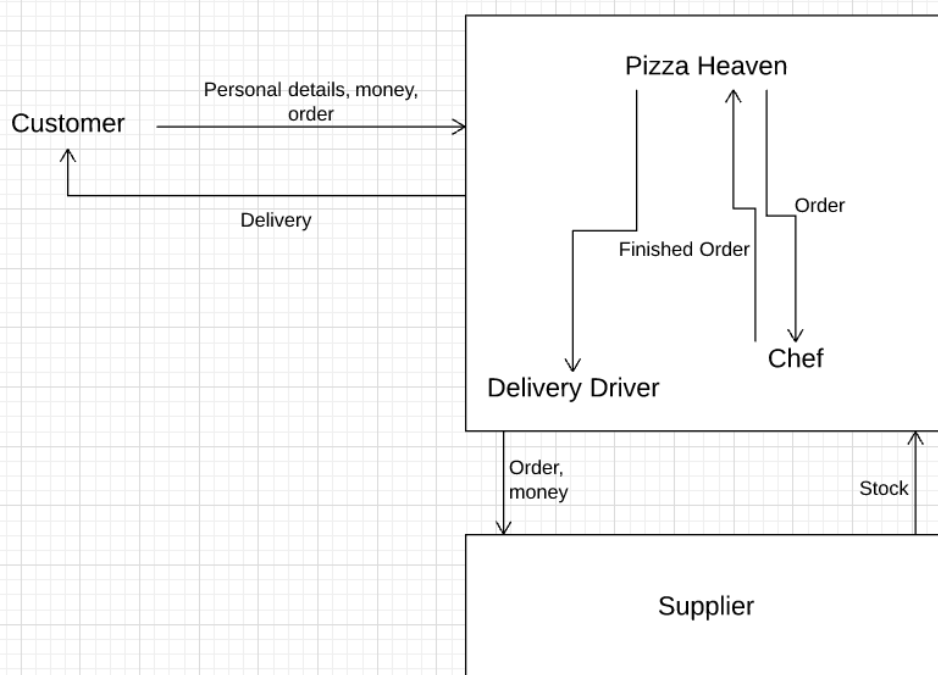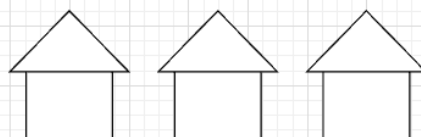
Class Diagram/ERD
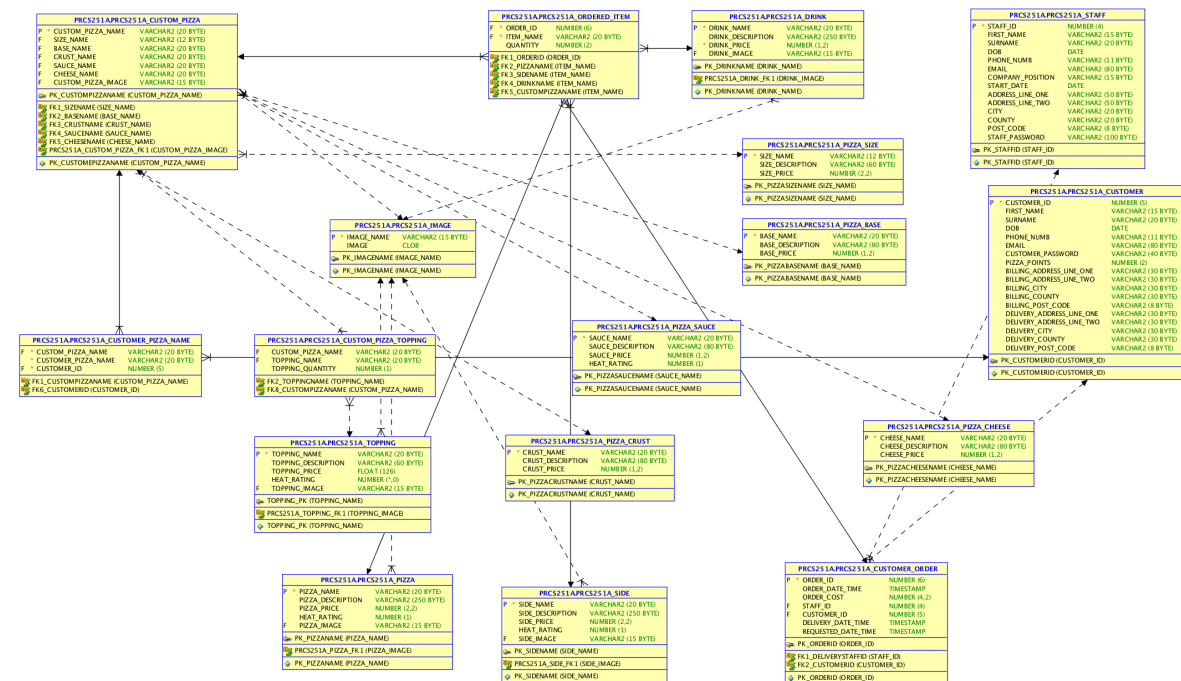
Sprint Plan

Sprint Backlog (Dev)

Provide log in box for the web

Consume customer information from the API endpoint and deserialise (parse) into Customer Object on the web

Authenticate Customer using their details retrieved from API endpoint and create secure session on the web

Expose Pizza data through API Endpoint

Consume Customer information through API endpoint to be displayed on the web

Create Customer edit page with GUI components to allow the customer to edit their details with pre-populated data on the web

Post edited data back to the API once the customer has edited their data and forward back to a non-edit state of customer details on the web

Communications Plan:

Our communications plan varies from week to week based around our constantly-changing timetable. We have so far averaged over 10 hours per person per week, but this value will fluctuate based on our goals for the week, and the number of sessions we can schedule.

	PRCS251 Diary
	File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Date	Time	Duration (Hours)	Location	Activity	Present		Group Member	Total Hours	Present for (%)		Week	Hours
2	30/01/2017	11:00	2	Library	Make assumptions, initial ERD & normalise.	all		Craig	40.75	100		1	12.5
3	31/01/2017	10:00	2.25	Library	Assumptions/Normalisation.	Craig, Dan, Joe, Zak		Dan	30.5	74.84662577		2	8.5
4	01/02/2017	11:00	2	Library	Assumptions/Normalisation issues.	all		Joe	40.75	100		3	14.75
5	02/02/2017	13:00	4	Library	Draw interface designs (website).	all		Mujaheed	24.25	59.50920245		4	5
6	03/02/2017	13:00	2.25	Library	Draw interface designs (app).	all		Zak	34.25	84.04907975			
7	06/02/2017	10:30	2.25	Library	Draw interface designs (chef + some manager).	all		Max Total	40.75				
8	07/02/2017	15:00	0.25	Portland Square	Meeting with client (Mark).	all		Total Hours	170.5				
9	09/02/2017	09:00	4	Library	Draw interface designs (manager). Normalisation. Paper demo. API.	all							
10	10/02/2017	09:00	2	Library	Paper demo. Optimisation. Planning documentation.	Craig, Joe, Zak							
11	13/02/2017	10:30	3.5	Library	Planning Documention. API.	Craig, Dan, Joe, Zak							
12	14/02/2017	09:00	1	Library	Paper demo.	Craig, Joe, Zak							
13	14/02/2017	10:00	0.75	SMB109	Cognitive Walkthrough (Liz).	Craig, Joe, Mujaheed, Zak							
14	14/02/2017	11:00	0.5	PSQA301	Planning Deliverable (Ismini).	Craig, Joe, Mujaheed, Zak							
15	14/02/2017	15:00	0	PSQB316	Meeting with client (Mark). Cancelled.	Cancelled							
16	15/02/2017	11:00	3	Library	Cognitive walkthrough & planning deliverable changes to normalisation.	all							
17	16/02/2017	09:45	1	BGB208	Architecture Demo (Torbjorn).	all							
18	17/02/2017	10:00	5	Library	Normalisation changes. Build database.	Craig, Joe, Mujaheed, Zak							
19	20/02/2017	11:00	2	Library	SCRUM meeting and adding to the database	Craig, Dan, Joe, Mujaheed							
20	21/02/2017	10:00	3	Library	SCRUM & Planning documentation.	all							
21	23/02/2017	09:00		Library	Meeting to decide AGILE roles. Finish planning documentation.								
22	24/02/2017	09:00		Library									
23													

Risk Analysis:

Risk	Probability	Impact	Course of Action
Loss of small portions of project.	High	Low	Use repository to ensure up to date version accessible.
Loss of entire project.	Low	High	Keep numerous backups.
Equipment loss/damage.	Medium	Low	Use open access equipment.
Fall behind sprints/work takes longer than anticipated.	High	Medium	Invest more time into working on the project, reduce workload in future sprints and plan to remove parts of the system design reaching beyond the scope.
Team member stops contributing for any reason.	Low	Low	Accept risk until risk occurs and redistribute work accordingly.
Team lacks specific knowledge and/or skills to complete segment of assignment.	High	High	Accept that the assignment is part of a learning process and that we must develop and improve upon our current skill sets within the team.
User's requirements change after they are gathered.	High (medium)	High (Low)	Keep logs of feedback from user with dates feedback was given. If the user changes their mind, then ask them to explain why they have changed their mind and re-adjust accordingly. Should reduce probability because the user may remember why they wanted the original requirements, will remove undesirable features to reduce impact on final product.