# ISAD 251 Coursework – Tea Room Application

# **Application Design Document**

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### Links

GitHub repository: https://github.com/Squidgeypea/isad251 cw

Project board: <a href="https://github.com/Squidgeypea/isad251">https://github.com/Squidgeypea/isad251</a> cw/projects

Video: https://www.youtube.com/watch?v=ZK2LDWGXyJU&t=2s

### Introduction

This application is based on the theme of a tea room situated on board a fictional steam train, The Puffing Express, in the style of a train's restaurant car. The application could be presented within the 'tea car' on a self-service device, integrated into the structure of the room, like the self-service devices currently found in some popular fast food outlets, or it could be accessed using a personal mobile device.

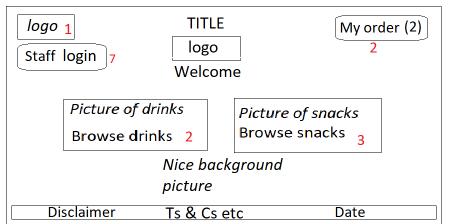
A GitHub project board was used to organise tasks and keep track of work.

# Storyboard

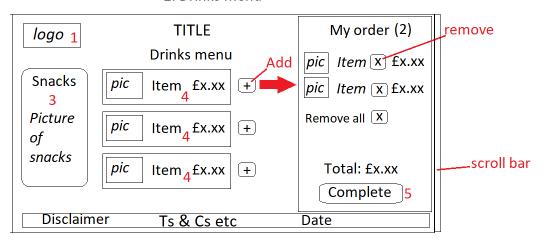
The storyboard was edited to act on advice and ideas presented at the peer review.

The initial storyboard is displayed here. The final storyboard is shown on page six of this document.

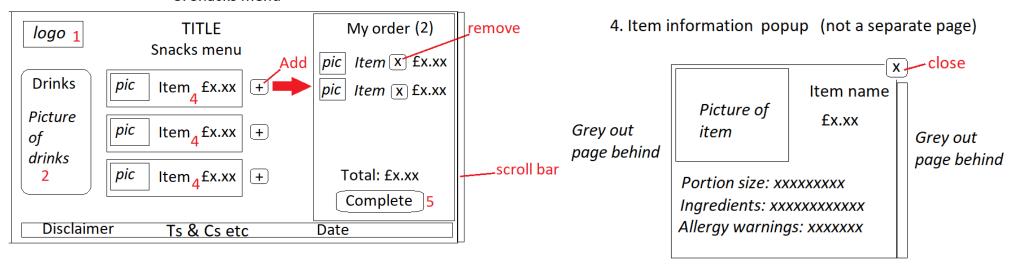




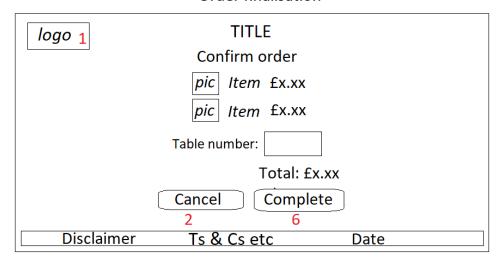
#### 2. Drinks menu



#### 3. Snacks menu



# 5. Order finalisation



# 6. Order complete

logo 1	TITLE Order Complete	
	Thank you for your ord	er
	Table: 04 Order number: 06	
	Please pay when you leave	2
Disclaimer	Ts & Cs etc	Date

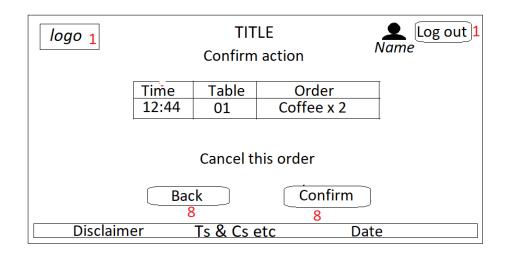
# 7. Staff login

logo 1	TITLE	In case they star	t logging
	Staff Login	in and get distra	
This page w	ill time out in 25 sec	conds.	
Staff Number:			
Password:		Go 8	
Disclaimer Ts	s & Cs etc	Date	

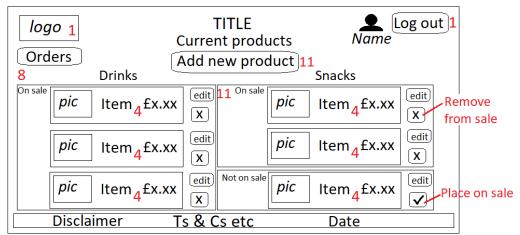
## 8. Staff view of orders

Products 10	priority Time 12:44 12:48	Curre Table 01 09	TITLE ent orders  Order  Coffee x 2  Water x 1  Biscuit x 1  Coffee x 1	Actions  V X  9 9  V X	delivered cancel
			Cake x 1		
Discla	aimer	<u>Ts &amp;</u>	Cs etc	Date	

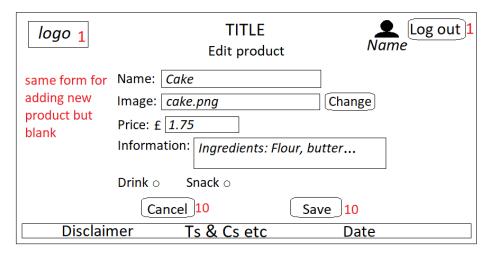
#### 9. Confirmation of action



## 10. View products



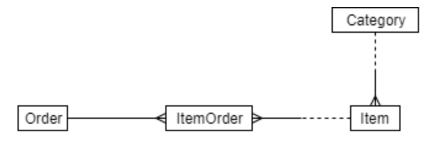
## 11. Add/edit a product



# Entity relationship diagram

The entity relationship diagram was created using the web site, Draw.io.

Although the category could have been an attribute of an item, it was decided that it would be a separate entity. This was because it would then be easier for a category to be made or removed, and for categories to have their own descriptions without repeating the same thing for each item. It also led to looser coupling.



# Settings and Images

Resource	Resource	Use in	Source
name	type	application	
favicon	Image	Icon	Myself
rooibos.jpg	Image	Customer	https://www.thesun.co.uk/fabulous/10030257/tea-drink-teabag-plastic-
		area	billions-particles/
notepad.jpg	Image	Staff area	https://ectacenter.org/decrp/type-checklists.asp
1393497919.jpg	Image	Background	https://www.trainsafaris.com/uploads/2/1/2/7/21279846/1393497919.jpg

## Feedback

### Peer review of storyboard

Peer reviews of the storyboard were carried out on 15/10/2019.

Reviewer name	Avy Gurung	Max Barker	Josh Franklin
Errors identified	Add/edit item part needs	Basket may be	Database will not be
	a category.	incompatible with mobile	correctly populated with
		devices.	new item without
			category.
Unclear parts	None.	None.	None.
Inspiration gained	Include date in orders.	None.	Include category in add
			new item part.
Constructive advice	Include category in add/edit.	Make basket a slide-out or drop-down for mobile devices.	Have 'on sale' Boolean rather than just deleting an item. Include functionality for forgotten passwords and to add new staff members.

The storyboard was changed after the peer review and it was simplified a lot because a simpler application would be better for users and better in terms of code structure.

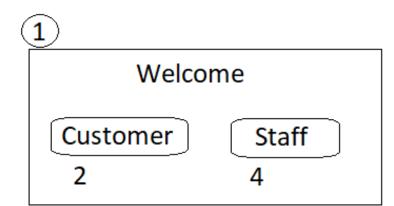
The following changes were made to the initial storyboard, to act on feedback received during the peer review.

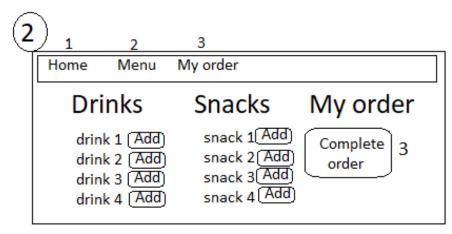
It was suggested that the 'My order' section should be simplified. This advice was followed.

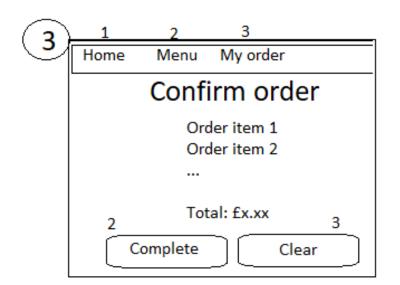
It was pointed out that it was necessary to include the product category in the form to add or edit a product. This is because products will be shown to customers based on their category, which must not be null in the database.

A peer commented that it would be preferable to remove a product from sale than to remove it from view altogether. This way, a staff member could easily decide to sell the product again in future without having to recreate the product. Since it would be easy to put the removed product back on sale, it was decided that screen 12 would no longer be necessary, and it was removed from the storyboard. Screen 10 was adapted to show the change.

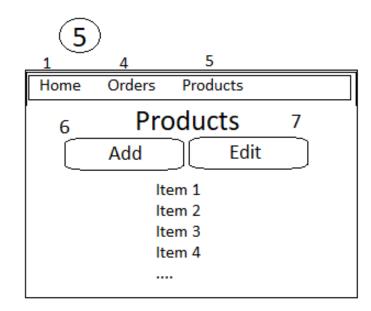
Below is the simplified final design for the storyboard:



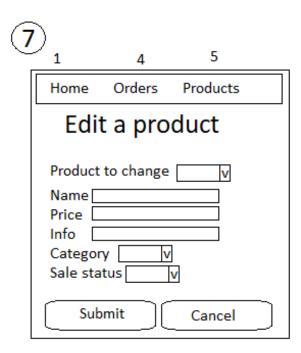












#### Peer review of demo

Reviewer name	Morgan Wilson	Morgan Hill	Dan Skillman
Errors identified	Staff member can't	When a new customer	Customer might not
	remove an order from	uses the system, the	realise that their items
	their view of orders.	previous customer's order	have been added.
		is still shown.	
Unclear parts	None.	None.	None.
Inspiration gained	Use nice looking buttons	None.	Structure the README file
	rather than just text.		so that it's easy to read.
Constructive advice	onstructive advice Make sure staff can		Display a message telling
	update/remove orders	reset each time a new	them that their items
	from their list.	customer uses it.	were added.

It was suggested that the staff should be able to remove an order from their view once it was completed. This advice was following by adding a 'completed' field to the database. This way, orders could be shown to staff if they had not been completed, and if they had been completed, they would remain in the database but not be visible.

It was pointed out that a customer should start on a 'blank canvas', a page with nothing already selected. This was achieved by clearing the incomplete orders each time the home page is loaded. This ensures that the basket cannot fill up with unwanted orders.

A peer commented that customers should be alerted when they added items to their basket. This was done by including a code block in the view which displayed a message on the screen when they added an item to their order.

# **Analysis**

Listed below are further improvements which could have been made, in addition to the suggestions from the reviews.

- Include the option to add a new category besides drinks and snacks.
- Make the application compatible for mobile devices.
- Include a login system for different users.
- Provide the option to add a new staff member.

# Screenshots

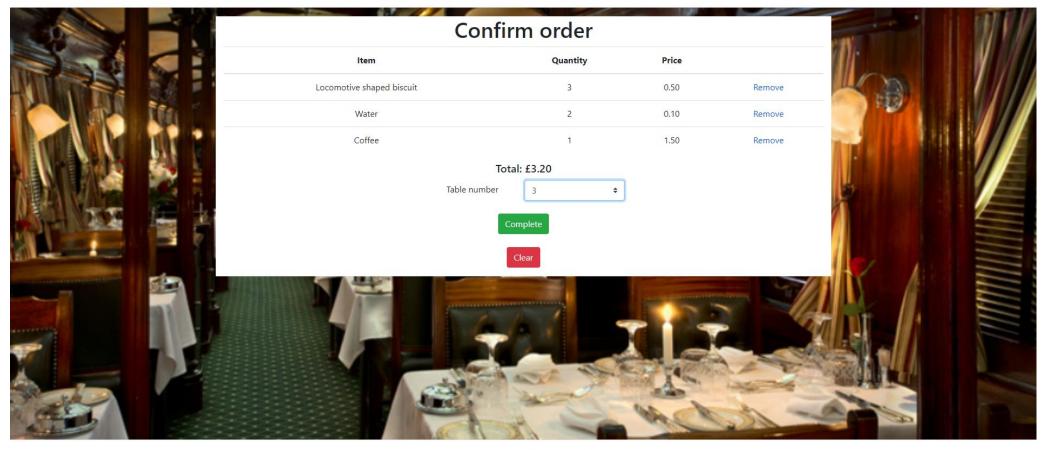




20/11/2019 - Puffing Express Tea Car

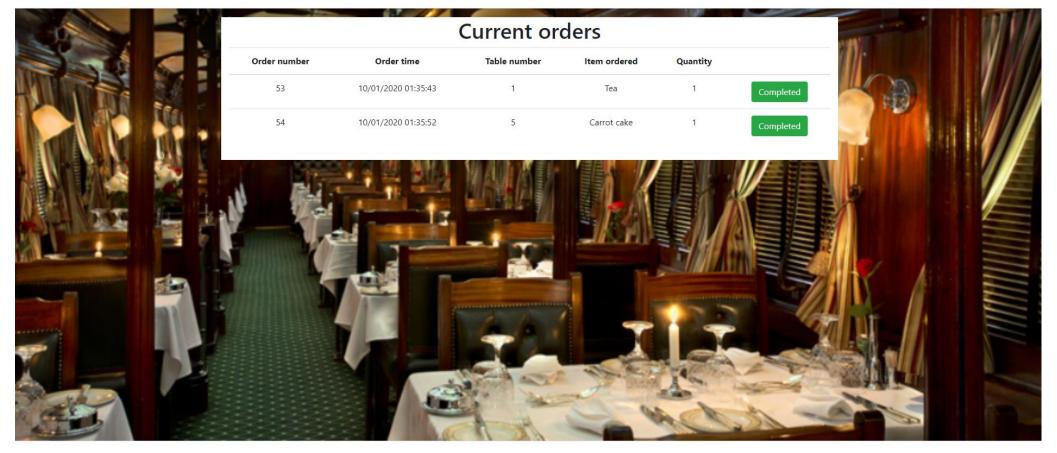


20/11/2019 - Puffing Express Tea Car - Privacy



20/11/2019 - Puffing Express Tea Car - Privacy





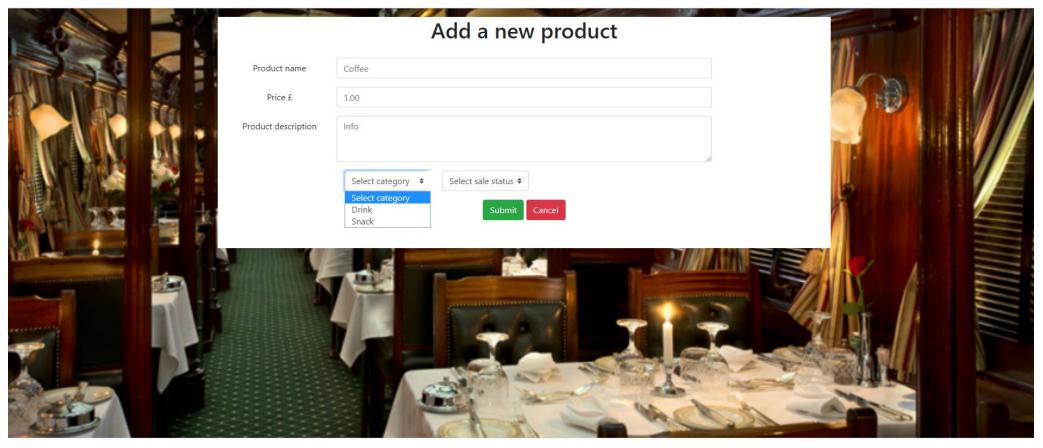
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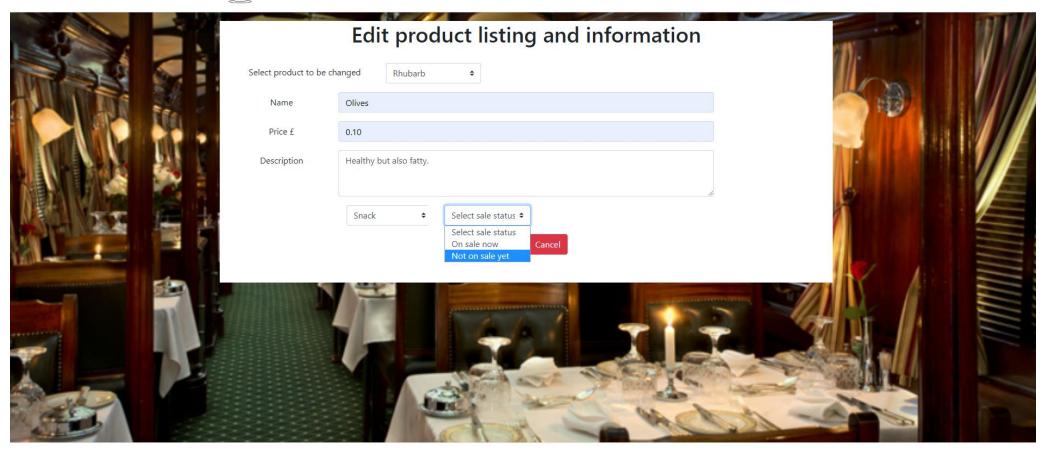
		Products						en.		1 1/1
		Add new product Edit a prod	duct							1 1/1
	Name	Information	Picture file	Currently on sale	Sale price	Category				
	Scone	1 scone with jam and cream in separate containers. Ingredients: wheat flour, baking powder, caster sugar, sea salt, coconut oil, almond milk.	scone.jpg	€	1.20	Drinks	Details			
	Carrot cake	1 slice. Ingredients: flour, sugar, egg, vegetable oil, bicarbonate of soda, salt, cinnamon, carrots, walnuts.	cake.jpg	€	2.00	Drinks	Details			
	Locomotive shaped biscuit	1 biscuit. Ingredients: butter, caster sugar, egg yolk, vanilla extract, flour.	biscuit.png	•	0.50	Drinks	Details			
	Nuts & raisins	Bowl of mixed nuts & raisins. Ingredients: hazelnuts, peanuts, cashew nuts, brazil nuts, raisins.	nuts.jpg	•	1.50	Drinks	Details			
5 <u>E</u> A	Water	Glass of still water.	water.jpg	€	0.10	Snacks	Details			
100	Tea	Tea in a tea car shaped teapot. Contains caffeine.	tea.jpg	1	1.20	Snacks	Details			=
	Coffee	Ground coffee in a 300 mL cup. Contains caffeine.	coffee.png	₩	1.50	Snacks	Details			
	Rooibos tea	Caffeine-free tea made from the rooibos (redbush) plant.	rooisbos.jpg	€	1.20	Snacks	Details		$M_{\perp}$	
	Rhubarb	Not an animal.		€	0.10	Drinks	Details			
	255	The Park of the Pa	-	9		200			at	

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