

## Codename: Developers Next Door

Milestone 3 Presentation

Self-Service Ordering System

## Presentation Outline

- 1. Client Background [Sashen]
- 2. Overview of Main Requirements [Sashen]
- 3. Front End System Demonstration [All]
- 4. Website Documents
  - a. Website DFDs [Denita]
  - b. Sitemap and Page Description Diagram [Kalen]
  - c. Usability Strategy [Sadikha]
- **5. Website Demonstration [Shridhar]**

#### **CLIENT BACKGROUND**



#### Who are they and what do they do?

- Dimension Data Westville Branch
- South African-based IT company
- Willing to play the role of our client
- Offer global solutions

#### **Area for improvement**

- Internal canteen in need of upgrade
- Provides quick snacks to employees before meetings

#### Main problems they face

- Lengthy waiting times
- Long queues
- COVID-19 safety measures -> social distancing & minimizing interaction



Picture: Dimension Data
Westville Branch



Picture: Westway Office Park

## Overview of Main Requirements

- 1 Login
  - Enter user credentials
  - Get authorization status
  - Features unlocked according to role
- 2 Place Order
  - Employee finds available kiosk
  - Enters login credentials
  - Selects Items
  - Review and pay (credit deduction)
- **Fulfil Order** 
  - Canteen worker views active orders
  - Change order status

- View Credit Balance
  - Employee presented their credit information (Credit limit and balance)
  - Employee presented with their credit history
- Management Facility
  - Manage Menu Items
  - Set Credit Limit
  - Manage Canteen Worker Details
- **View Reports** 
  - Various reports made available to
     Manager in the reporting dashboard
  - Employee order receipt

#### FRONT END SYSTEM DEMONSTRATION









## The Website

#### Part 1: Documents Overview

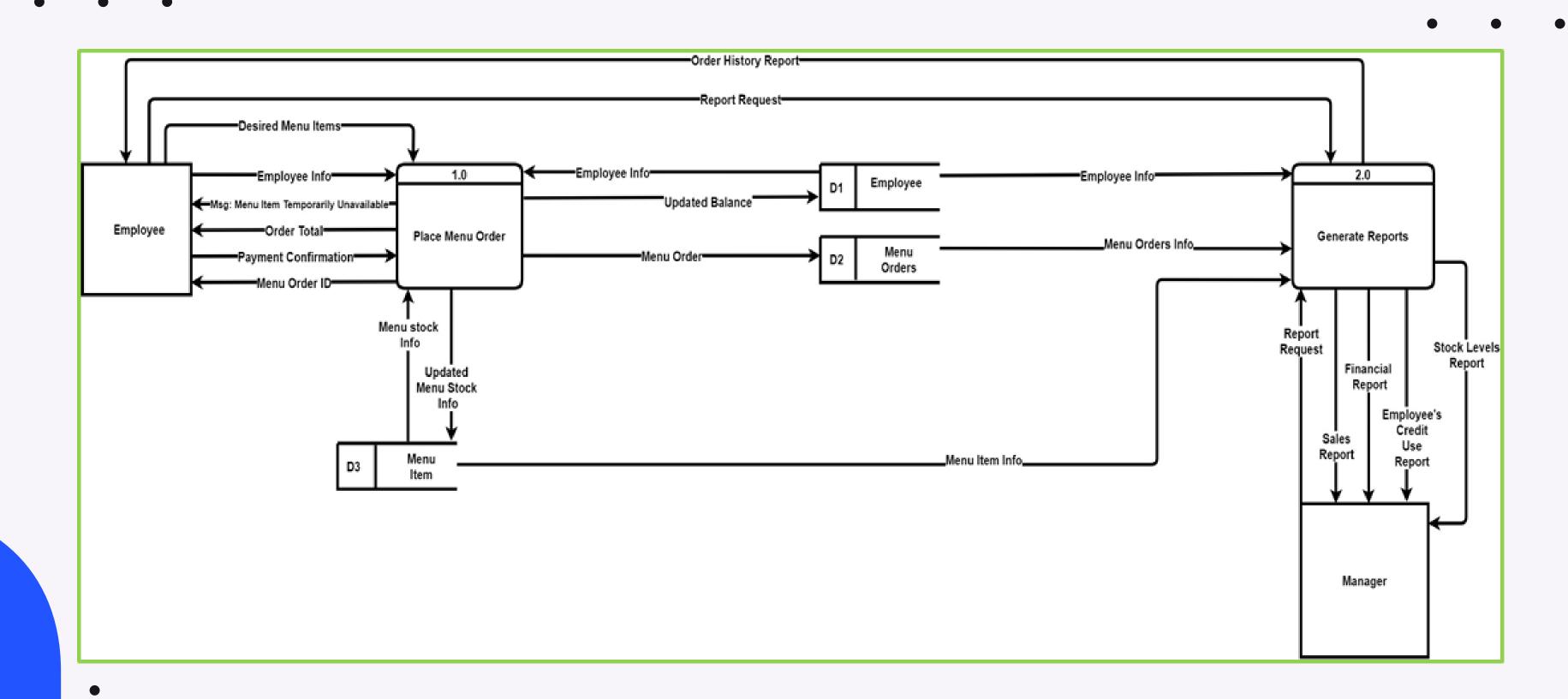
- Website DFDs [Denita]
- Sitemap Diagram [Kalen]
- Usability Strategy [Sadikha]

#### **Part 2: Website Demonstation**





#### WEBSITE LEVEL-0 DFD

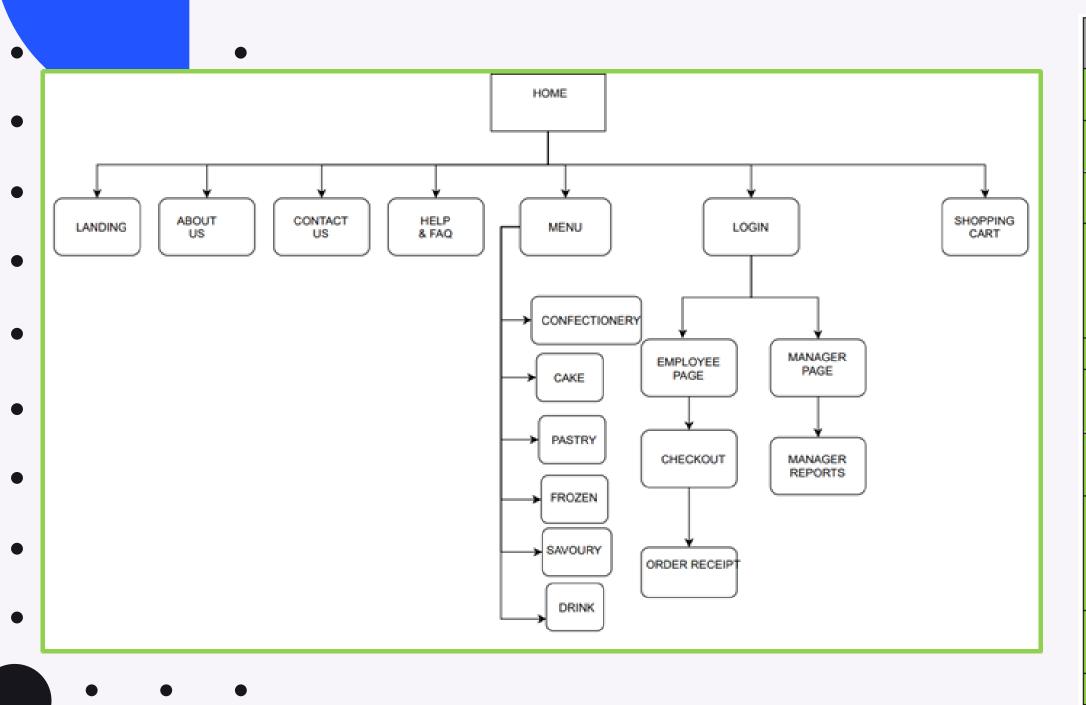








# SITE MAP AND PAGE DESCRIPTION DIAGRAM



5 1		CUR FUNCTIONS	
Page Name	MAIN FUNCTIONALITY	SUB FUNCTIONS	
Public Page 1	Landing	View portion of menu items	
		A brief introduction	
Public Page 2	About Us	Description of the kiosk	
		system	
Public Page 3	Contact us	View contact details of the	
		kiosk	
Public Page 4	Help and FAQ	View frequently asked	
		questions	
		Help feature	
		Complaints	
Public Page 5	Menu	Browse menu items	
Public Page 6	Login	Access employee pages	
		Access manager pages	
Public Page 7	Shopping Cart	Add menu items	
		Delete menu items	
Manager Page 1	Report Request	Request stock level report	
		Request sales report	
		Request employee credit	
		use report	
Employee Page 1	Checkout	Review order	
		Confirm order	
Employee Page 2	Order Receipt	View receipt of order	







#### WEBSITE USABILITY STRATEGY

1.SEARCH	The website will contain a search feature as well as HELP & FAQ		
2. LARGE FONTS	Easier to read		
3. COLOR SCHEMES	Appropriate colour schemes		
4.IMAGES & TEXT	Images of menu items as well as text		
5.SELECTED OPTIONS	Only selected options highlighted		
6. DESIGN PROCESS	Only absolutely necessary information is included in website		
AND EVALUATION			
7. AVAILABILITY	Website should be accessible at all times		
8. USER FRIENDLY	The user interface is pleasant and easy to navigate. Not many button		
	clicks required to place order/request reports.		
9. SCROLLING	Website mainly incorporates vertical scrolling. with minimal horizontal		
	scrolling making the website more easily readable by users and fully		
	visible.		
10.CLARITY	Website is attractive, yet simple and easy to read and understand		
11. PRIVACY	Personal details of users are not visible or accessible to others		
12. RELEVANCE	The website is quite engaging and includes all relevant information		
	needed as well as images of menu items.		
13. RECOGNITION	The Home Page includes all necessary steps required to place an		
	order/request reports		
14. USER EXPERIENCE	Website is easy to use, does not include pop ups or bright		
	lighting/colours that can be harmful to the eyes. Plenty of images to		
	grab the user's attention. Fonts are easily legible.		

15. NAVIGATION	All pages in the website have visible links to all public pages including			
	the home page and login page making it easier for users to navigate			
	the website. Navigation options are concealed in a burger menu when			
	the website is viewed on mobile devices or when resized on larger			
	displays.			
16. LOGIN	The website will have 1 login page. When a user logs in, the website			
	will analyse the type of user and redirect the user to the respective			
	page accordingly; namely employee page or manager page. This is an			
	access control mechanism which provides "context-dependent" access			
	to pages that are access controlled, thus increasing website security.			
17. CONVENIENCE	Important fields will be displayed on top left-hand side/ no need to			
	scroll down page for important info			
18.HEADINGS	All pages have a heading			
19. LINKS	Links to social media pages included in the 'contact us' page of the			
	website			
20. ERRORS	Website does not allow users to order a quantity of menu items that			
	does not exist. Try catch blocks are implemented for all database			
	connectivity, this ensures that error handling is taking place and			
	displays the error message on screen, should an error occur.			
21. CRUD	The website will allow managers to add new menu items and delete			
	menu items, as well as request reports. The website will also allow			
	employees to update their details on the website.			

#### WEBSITE DEMONSTRATION



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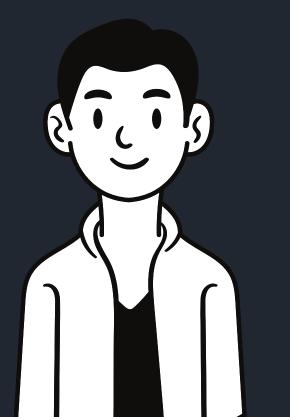
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## THANKYOU









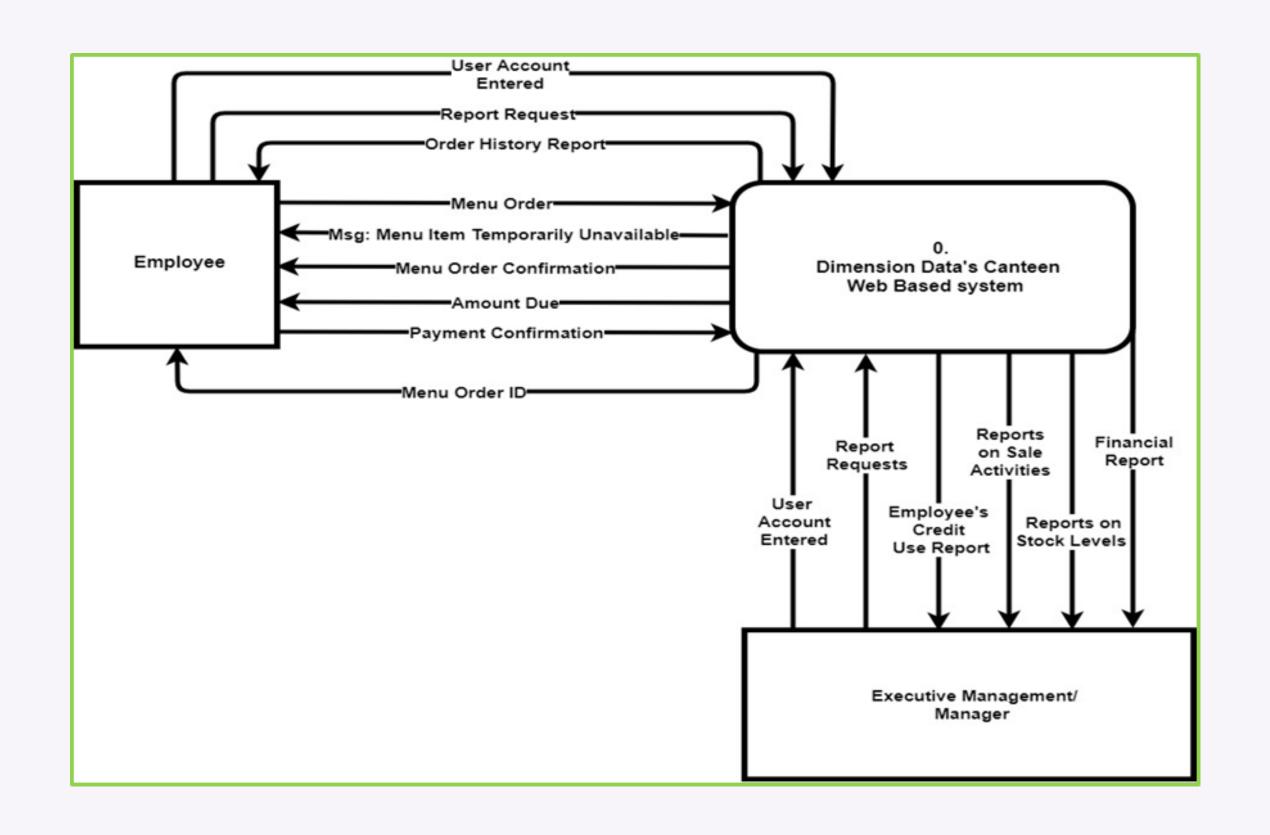








#### WEBSITE CONTEXT LEVEL DFD



### **FES ENHANCEMENTS**

Aspect of Improvement for the FES	What was done to enhance this aspect of the FES	Level of Success (High, Moderate, Low)	
Visual Improvements	<ul> <li>Improved spacing between UI elements</li> <li>Better colour selection for panels (reduced likeliness of dark text on dark backgrounds)</li> <li>Text and formatting improvements</li> <li>Layout changes</li> <li>Page and column heading changes</li> <li>Field and window sizing fixes</li> </ul>	High	
Usability	<ul> <li>Filtered searching</li> <li>Moved cart to the menu</li> <li>Seeing credit info on menu</li> <li>Tooltips and improved error information</li> <li>Mandatory field checks</li> <li>More confirmation dialogues</li> <li>Included FAQ/Help section</li> <li>Different landing pages for each user group</li> <li>Emailing confirmations (when necessary)</li> </ul>	High	
Security	<ul><li>Masking passwords</li><li>Emailing new passwords</li></ul>	High	
Processing	<ul> <li>Refinement of business rules</li> <li>Adding new items</li> <li>Improved input validation</li> <li>Archive status rather than deletion</li> <li>Improved Grid View filling parameters</li> <li>Monthly credit limit and balance interaction</li> </ul>	High	
Reporting	<ul> <li>Added receipt after order using Crystal Reports</li> <li>Created Various PowerBI reports from data generated in the FES</li> </ul>	High	