

Codename: Developers Next Door

Milestone 4 Presentation

Self-Service Ordering System

Presentation Outline

- 1. Client Background [Sashen]
- 2. Overview of Main Requirements
 - a. Front-end System [Sashen]
 - b. Website [Shridhar]
- 3. System Demonstration with Reporting[All]
- 4. Review of Requirements and Objectives
- 5. Reflections and Closing [All]

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
- Lack of business intelligence for canteen
- COVID-19 safety measures -> social distancing & minimizing interaction



Picture: Dimension Data

Westville Branch



Picture: Westway Office Park

Front-End System Objectives

- (1) Login Access Control
 - Enter user credentials
 - Get authorization status
 - Features unlocked according to role
- Place Order
 - Employee finds available kiosk
 - Enters login credentials
 - Selects Items
 - Review and pay (credit deduction)
 - Generates receipt
- 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 Staff Details
- (6) View Reports
 - Various reports made available to
 Manager in the reporting dashboard
 - Employee order receipt

Website Objectives

- (1) Login Access Control
 - Public and private pages
 - Only employees can login
 - User specific pages

- Place Order
 - Add snacks or drinks to cart
 - Login to proceed with purchase
 - Confirmation

- **Employee Profile**
 - View personal details
 - View order history
 - Password facility
- (4) Manage Menu Items
 - Viewing, adding, archiving, and updating

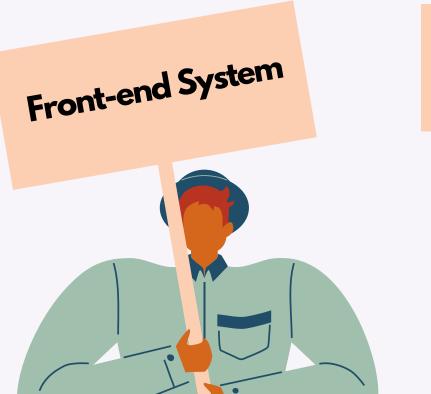
- **View Reports**
 - Externally accessed PowerBI reports

Unified 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.

	<u> </u>
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.

FULL SYSTEM DEMONSTRATION







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INTERMISSION







Front-End System Objectives

- (1) Login Access Control
 - Enter user credentials
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 - Enters login credentials
 - Selects Items
 - Review and pay (credit deduction)
 - Generates receipt
- Fulfil Order
 - Canteen worker views active orders
 - Change order status



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

Website Objectives

- (1) Login Access Control
 - Public and private pages
 - Only employees can login
 - User specific pages
- Place Order
 - Add snacks or drinks to cart
 - Login to proceed with purchase
 - Confirmation

- (3) Employee Profile
 - View personal details
 - View order history
 - Password management
 - Manage Menu Items
 - Viewing, adding, archiving, and updating
- **View Reports**
 - Externally accessed PowerBI reports

Issue - Report Separation

- Lack of foresight
- Change in database schema

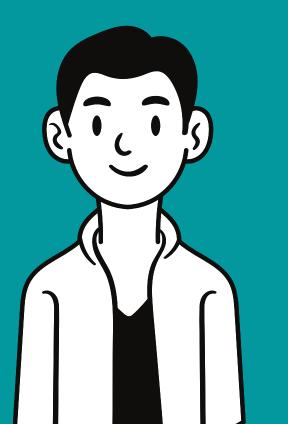
- Various tests and research conducted
- Not worth the risk

REFLECTIONS

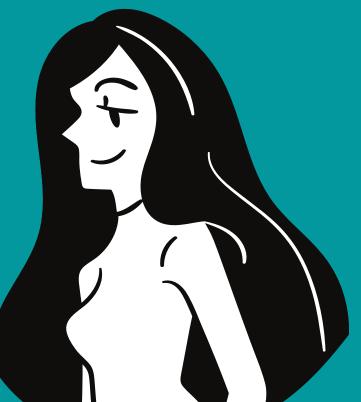












THANKYOU





