



Team Members

Analytical Expert

Saeed Kaddoura

Zi Yen Chang



Software Designer

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Software Engineer

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Franchise Information

Italian restaurant

Bethnal Green & Whitechapel

12pm - 2pm, 5pm - 10pm

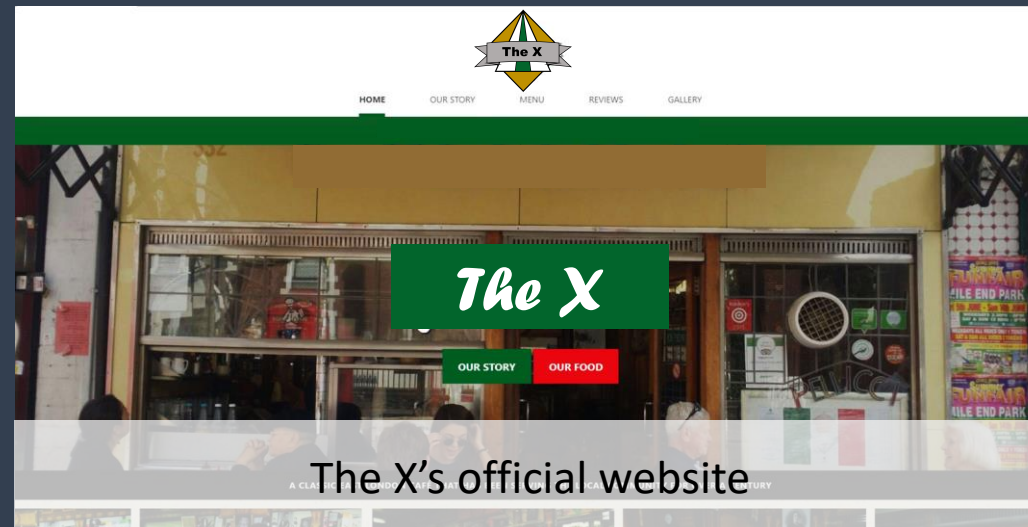
Casual dining

On site research

Analytical Expert: Zi Yen Chang, Saeed Kaddoura



Analyse the current performance and identify issues





Challenges & Problems

Challenges & Problems



Challenges & Problems

No Storage
of Records



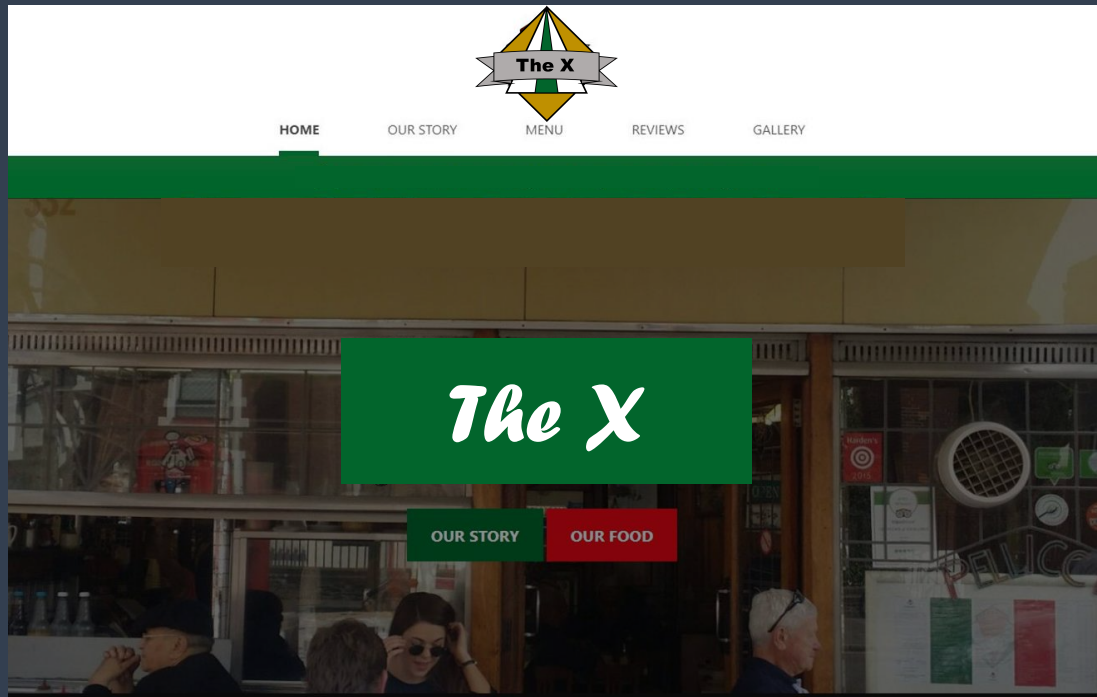
No Online
Reservation
Functionality



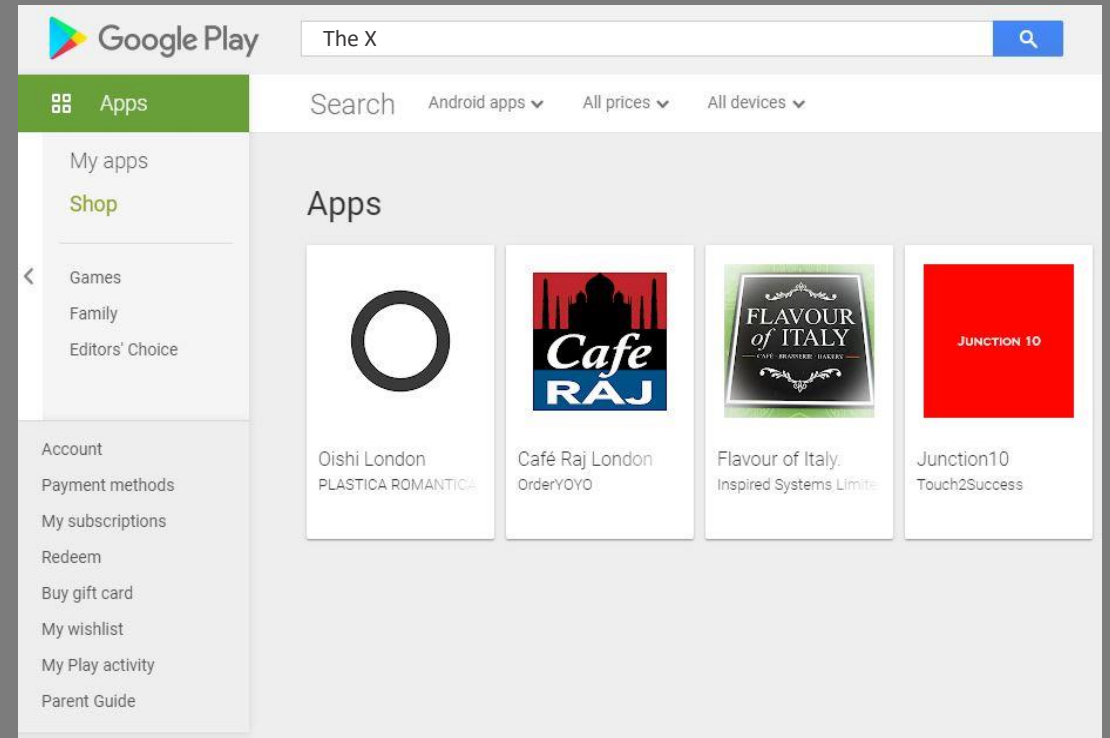
No Mobile
Application



No Online Reservation Functionality



No Mobile Application



Resolution Proposal & Implementation



Resolution Proposal

**Develop an application available
on customer's devices**

Features:

- Menu view
- Online reservation
- Pre-arrival order with customization options
- Pre-arrival payment



Resolution Proposal

**Develop an application
to be used in restaurant**

Features

Customer accessible devices:

- Menu view
- Order with customization options
- Bill view

Staff accessible devices :

- Table booking
- Order view
- Bill view



Implementation

Customers

Order food via the application using the tablet provided on the tables

Make payment at their table via the tablet



Implementation

Staff

Handle table bookings using fixed tablet at the front of the restaurant



Able to check all order information which is stored within a database

Get notified when customers have made payment at their table





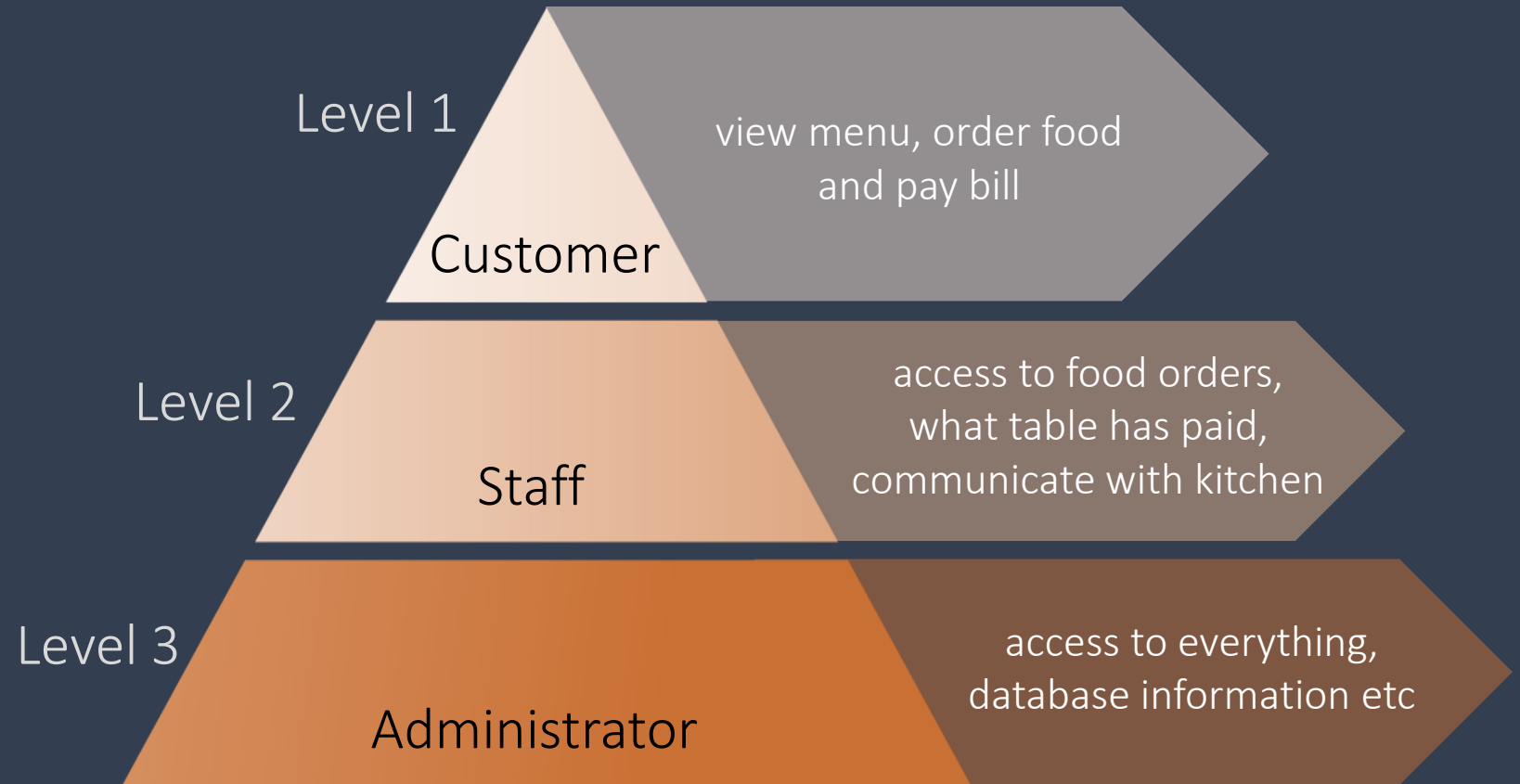
Technical Solutions

Technical Solutions

- Create three level abstraction of the application
- Responsive interaction due to small application size
- Restrict accessibility for different users

Technical Solutions

Three Level Abstraction



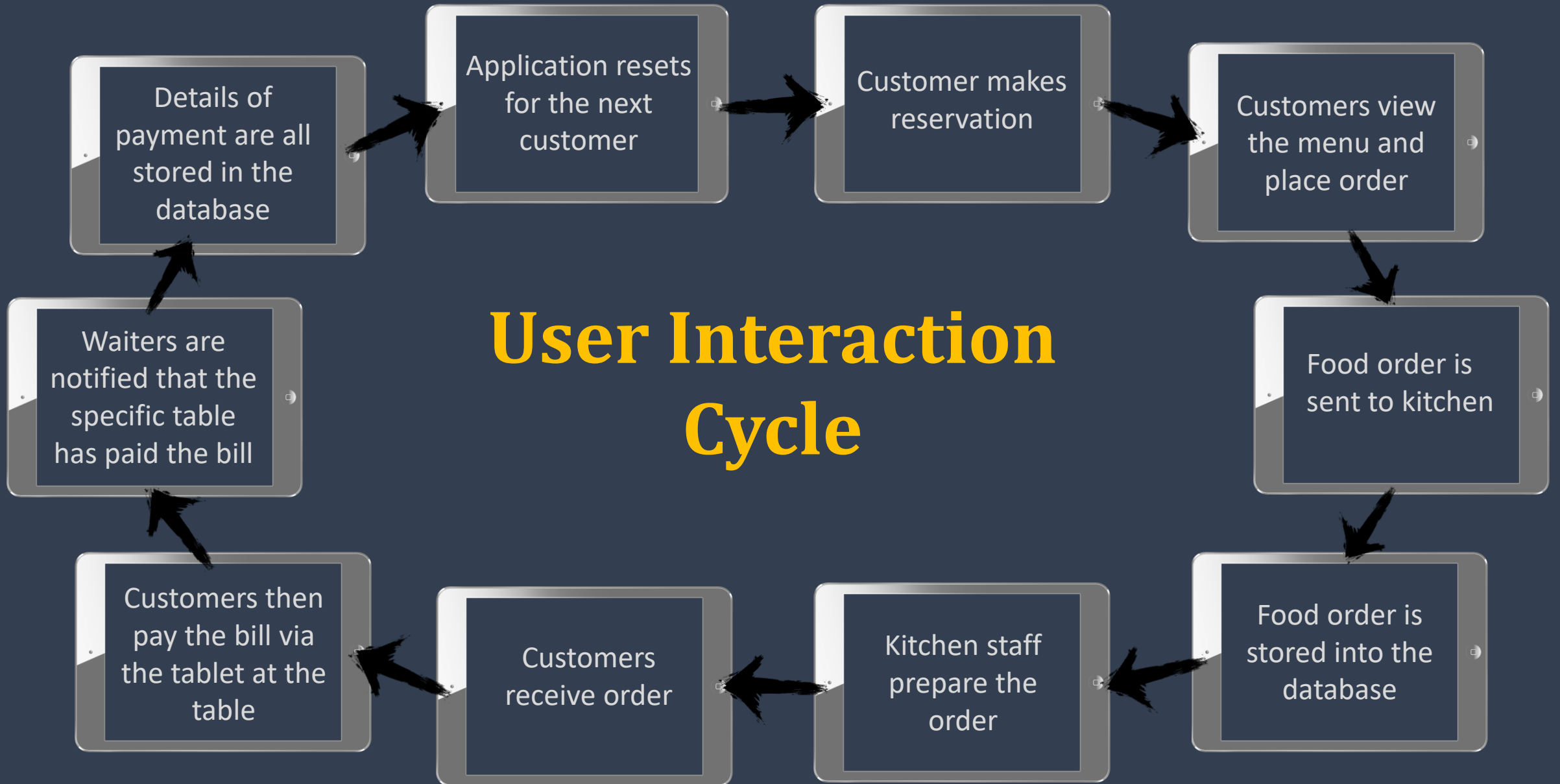
Technical Solutions

Programming Languages & Paradigms

- Android application within Java (Front-end)
- Written in a Procedural-oriented paradigm
- Information is stored within a Database (back-end)
- An online server will host the database



User Interaction Cycle





Impacts

Impacts

Customers

Able to book table
in advance



Shorter waiting time



Better dining experience
without language barrier



Application Reservation Interface

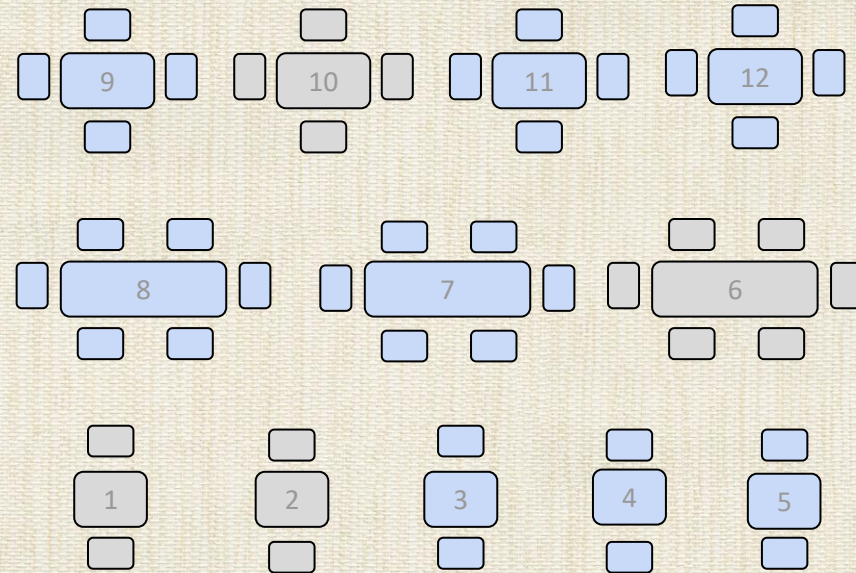
[HOME](#)[OUR STORY](#)[MENU](#)[REVIEWS](#)[GALLERY](#)[Reservation](#)

Online Reservation

Book for your table!

Choose an available table to book

BOOK NOW



☐ Available

☐ Not available

Impacts

Restaurant

Workloads decreased,
efficiency increased



No worries about the food
order tickets and records



Profit increases



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