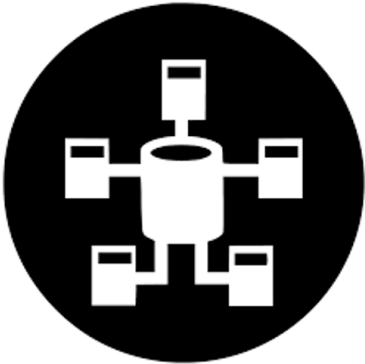


# DW Data Modelling and Developing Dashboards using Power BI, Tableau and QlikView Projects

## Data Warehouse Architecture



Determine which approach (Inmon or Kimball) would be the best approach to design the data warehouse / data mart for the organization.

For this demo, we are going with Kimball's (bottom-up) approach and the reason for this choice.

### Serves tactical business needs

Maintains user accessibility by allowing business users, to directly query the data and get reasonable response time.

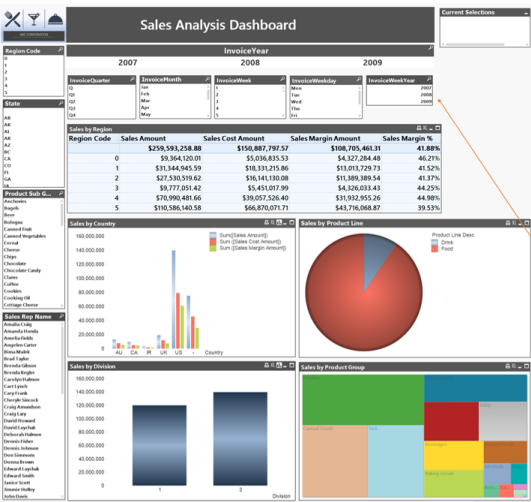
### Limited scope of requirements

Data warehouse is used to monitor sales data only, hence the approach will be more scalable and agile.

### Lower start-up costs

This method requires a smaller team of generalists to set up hence it has a lower start-up costs.

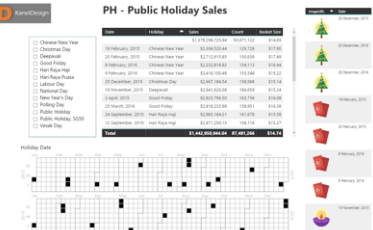
## Dashboard Design & Business Requirements



Business users are able to monitor their Sales Amount, Sales Cost Amount, Sales Margin% (i.e. Sales Margin Amount divided by Sales Amount) across many of their business dimension such as Division, Country, Region, State, Sales Rep, Product Line, Product Group, Product Sub Group, Invoice Year, Invoice Quarter, Invoice Month, Invoice Week, Invoice Week Day and Invoice Week Year.

Slicers – to give the business domains the options to select between different measures. Charts – to visualize the chosen selection.

### Overview Sales Performance



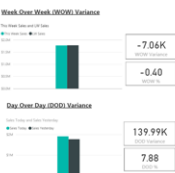
### Sales vs Budget



### Trend Overview



### Overview - Variance



### Visitors Dashboard



### Website Dashboard



# Sales Dashboard

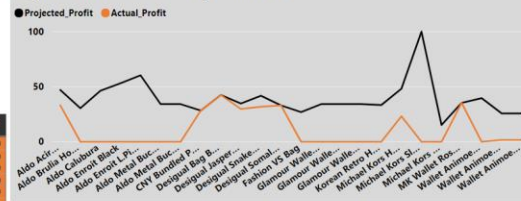


Selling Platform

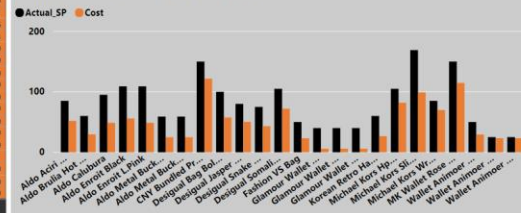


Product Name	Qty_Order	Qty_Sold	Cost	Total_Cost	Actual_SP	Actual_Profit
Aldo Aciri Sling Bag	1	1	51.90	51.90	85.00	33.10
Aldo Brulia Hot Pink	2	2	29.87	59.74	60.00	0.00
Aldo Calabura	1	1	48.69	48.69	95.00	0.00
Aldo Enroit Black	1	1	55.89	55.89	109.00	0.00
Aldo Enroit L.Pink	1	1	48.69	48.69	109.00	0.00
Aldo Metal Buckle Bag Black	1	1	24.81	24.81	59.00	0.00
Aldo Metal Buckle Bag Brown	1	1	24.81	24.81	59.00	0.00
CNY Bundled Promo (Aldo + MK)	1	1	121.70	121.70	150.00	28.30
Designal Bag Bols Glossy	1	1	57.49	57.49	100.00	42.51
Designal Jasper Lila	1	1	50.24	50.24	80.00	29.76
Designal Snake Patch Bag	1	1	43.17	43.17	75.00	31.83
Designal Somalia Bag	1	1	72.00	72.00	105.00	33.00
Fashion VS Bag	2	2	23.09	46.18	50.00	0.00
Glamour Wallet Black	1	1	5.84	5.84	40.00	0.00
Glamour Wallet Khaki	1	1	5.84	5.84	40.00	0.00
Glamour Wallet Pink	1	1	5.84	5.84	40.00	0.00
Korean Retro Handbag	1	1	26.61	26.61	60.00	0.00
Michael Kors Hp Wallet	1	1	81.80	81.80	105.00	23.20
Michael Kors Sling Bag	2	2	99.00	198.00	169.00	0.00
Michael Kors Wristlet Brown	1	1	69.80	69.80	85.00	0.00
MK Wallet Rose Gold	1	1	114.69	114.69	150.00	35.31
Wallet Animoor Black Big	1	1	29.40	29.40	50.00	0.00
Wallet Animoor Black Small	1	1	23.30	23.30	25.00	1.70
Wallet Animoor Coffee Small	1	1	23.30	23.30	25.00	0.00
<b>Total</b>	<b>27</b>	<b>10</b>	<b>1,137.47</b>	<b>1,289.13</b>	<b>1,925.00</b>	<b>260.41</b>

Projected Profit and Actual Profit by Product Name



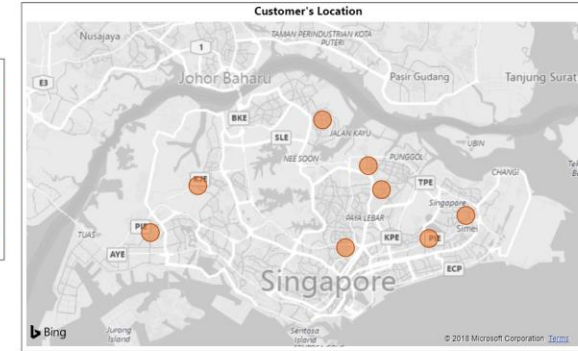
Actual SP and Actual Profit by Product Name



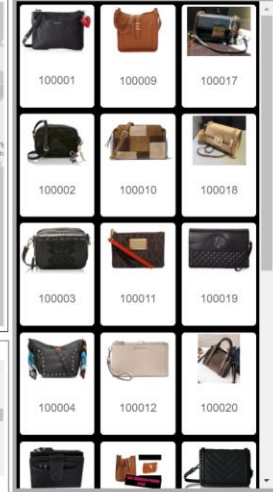
# Buyer Dashboard



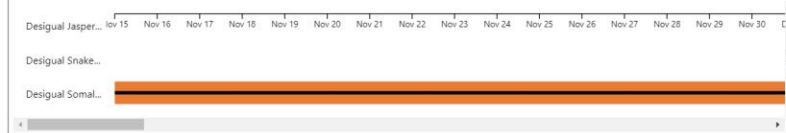
Date_Listed	Date_Sold
15 November, 2017	17 December, 2017
7 December, 2017	9 December, 2017
7 December, 2017	10 December, 2017
9 December, 2017	17 December, 2017
15 December, 2017	
15 December, 2017	24 January, 2018
18 December, 2017	18 December, 2017
18 December, 2017	7 February, 2018
18 December, 2017	8 February, 2018
25 January, 2018	2 February, 2018
21 February, 2018	



Product SKUs



Shipping Days by Product and Shipment Type



# Trading Dashboard

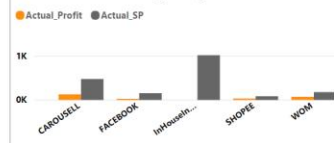


Product Name	Qty_Order	Qty_Sold	Total_Cost	Actual_Profit
Aldo Aciri Sling Bag	1	1	51.90	33.10
Aldo Calabura	1	1	48.69	0.00
Aldo Enroit Black	1	1	55.89	0.00
Aldo Enroit L.Pink	1	1	48.69	0.00
Aldo Metal Buckle Bag Black	1	1	24.81	0.00
Aldo Metal Buckle Bag Brown	1	1	24.81	0.00
CNY Bundled Promo (Aldo + MK)	1	1	121.70	28.30
Designal Bag Bols Glossy	1	1	57.49	42.51
Designal Jasper Lila	1	1	50.24	29.76
Designal Snake Patch Bag	1	1	43.17	31.83
Designal Somalia Bag	1	1	72.00	33.00
Glamour Wallet Black	1	1	5.84	0.00
Glamour Wallet Khaki	1	1	5.84	0.00
Glamour Wallet Pink	1	1	5.84	0.00
Korean Retro Handbag	1	1	26.61	0.00
Michael Kors Hp Wallet	1	1	81.80	23.20
Michael Kors Wristlet Brown	1	1	69.80	0.00
MK Wallet Rose Gold	1	1	114.69	35.31
Wallet Animoor Black Big	1	1	29.40	0.00
Wallet Animoor Black Small	1	1	23.30	1.70
Wallet Animoor Coffee Small	1	1	23.30	0.00
Aldo Brulia Hot Pink	2	2	59.74	0.00
Fashion VS Bag	2	2	46.18	0.00
Michael Kors Sling Bag	2	2	198.00	0.00
<b>Total</b>	<b>27</b>	<b>10</b>	<b>1,289.13</b>	<b>260.41</b>

No. of Product Sold



Sales By Selling Platform



# Seller Dashboard



Country



State



Product Name	Qty_Order
Aldo Brulia Hot Pink	2
Fashion VS Bag	2
Michael Kors Sling Bag	2
Aldo Aciri Sling Bag	1
Aldo Calabura	1
Aldo Enroit Black	1
Aldo Enroit L.Pink	1
Aldo Metal Buckle Bag Black	1
Aldo Metal Buckle Bag Brown	1
CNY Bundled Promo (Aldo + MK)	1
Designal Bag Bols Glossy	1
Designal Jasper Lila	1
Designal Snake Patch Bag	1
Designal Somalia Bag	1
<b>Total</b>	<b>27</b>

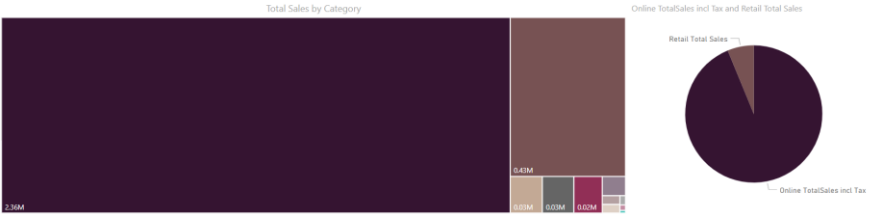
Shipping Days by Product and Shipment Type



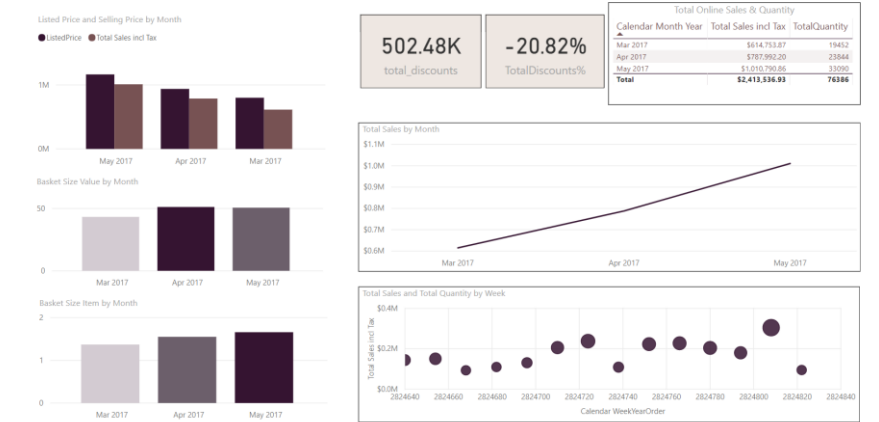
Shipment Status



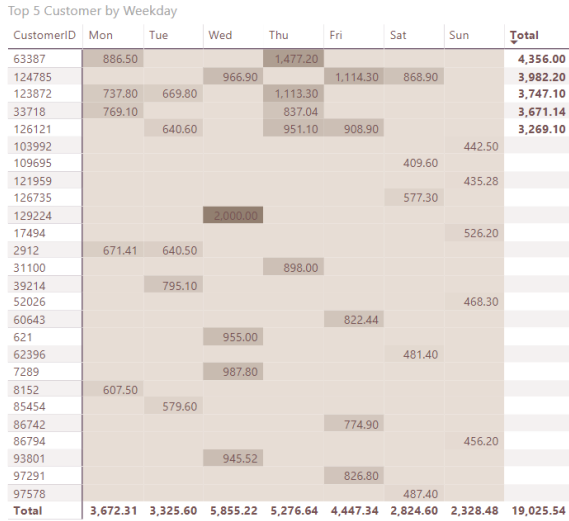
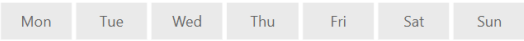
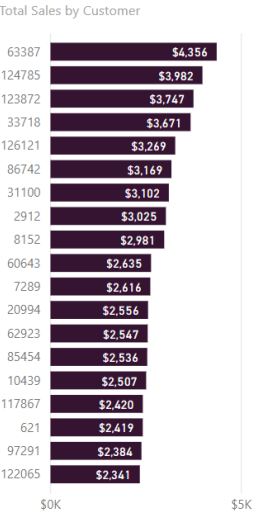
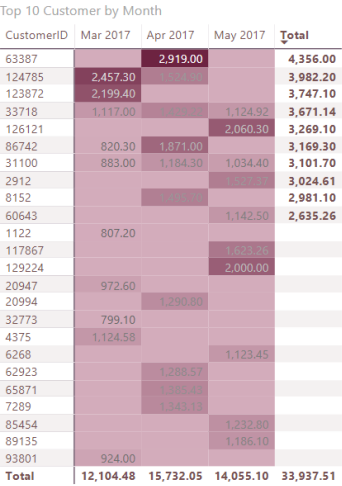
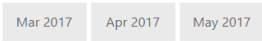
Item Performance



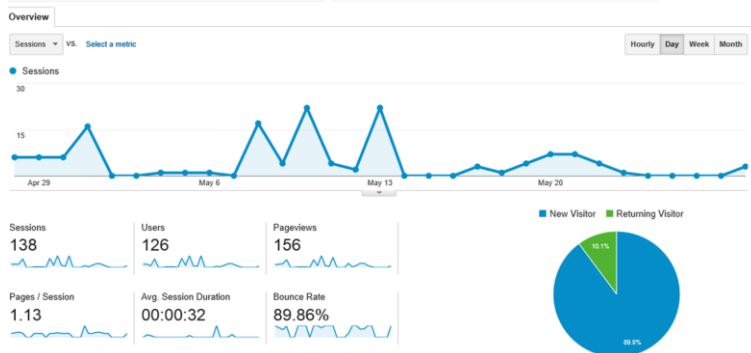
Online Sales Performance



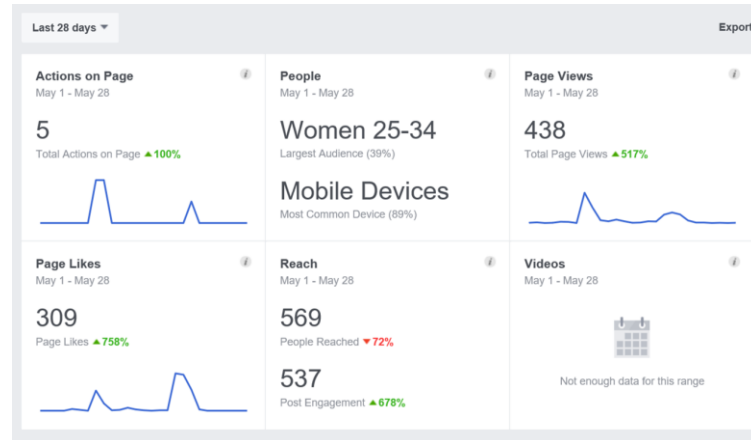
Customer Performance



## Google Analytics (GA) Dashboard for Website



## Facebook Insights and Statistics



## KPI & Trend line showing Performance by Brand

Total sales	Year												
Brands	2013	2013 Total				2014				2014 Total	Grand Total	2013	2014
	Qtr1	Qtr2	Qtr3	Qtr4		Qtr1	Qtr2	Qtr3	Qtr4				
BunFresh	239352.6	239731.2	248721.9	234253.8	962059.5	233963.8	242629.3	241933.8	83678.4	802205.3	1764264.8		
CakeFresh	356313	368001	368941	367439	1460694	362376	368832	362975	122773	1216956	2677650		
FoodFresh	69365	78747	76516	78309	302937	78107	71443	77280	26802	253632	556569		
KopiFresh	51088.7	53908.4	53752	50926.3	209675.4	52232.2	52989.4	54095	18175.5	177492.1	387167.5		
NoodleFresh	87682	89849	90225	91752	359508	88570	89204	91127	30559	299460	658968		
RamenFresh	84617	83532	85591	86555	340295	83438	82908	86664	28942	281952	622247		
Grand Total	888418.3	913768.6	923746.9	909235.1	3635168.9	898687	908005.7	914074.8	310929.9	3031697.4	6666866.3		

## Dashboard tracking performance of Webstore & visitors through GA



Same Period Last Week

28

Month To Yesterday

3

Week Over Week Growth

54 %

Week To Yesterday

43

Same Day Last Week

8

Day Over Day Growth

-88 %

Yesterday

1

Today

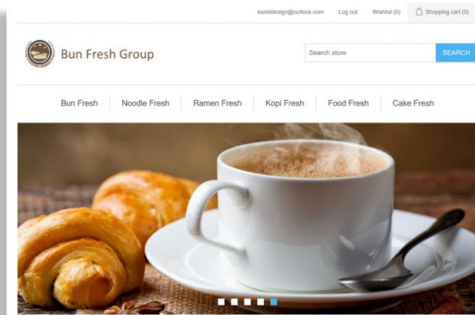
2

Previous Week

0

Last Refreshed

7/3/2016 12:00:00 AM



## Dashboard of Sales By Brand and Region

BRANCH_REGION	Total Sal...
WEST	206,267.00
NORTHEAST	119,547.00
EAST	118,763.00
NORTH	89,348.00
CENTRAL	88,322.00
Total	622,247.00

Brand Name

BunFresh

CakeFresh

FoodFresh

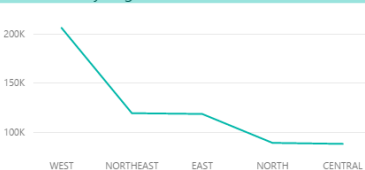
KopiFresh

NoodleFresh

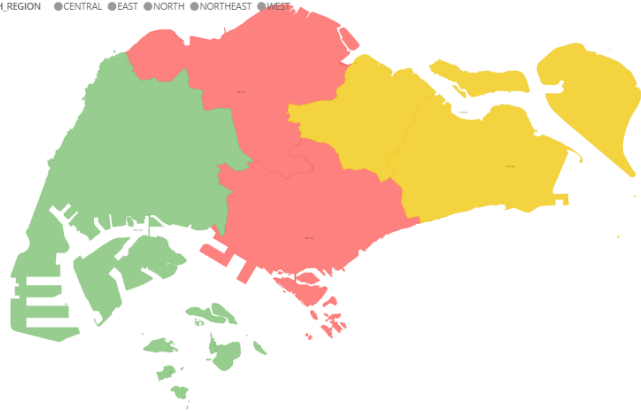
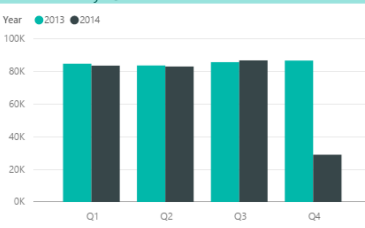
RamenFresh

Total Sales By Branch Region

Total Sales by Region



Total Sales by Quarter and Year



# Branding & Digital Marketing Projects

## Project Scope



## Strategy

Target Segmentation & Integration (How do you get there)



### Loyal & Return Customers

- Personalized & individualized Bundled Promo via e-mails based on the RFM (Recency, Frequency, Monetary)
- Introduce loyalty points/ coupons



### New & Potential Customers

- Mass marketing through social media platform & website
- Postings of promotions and invites
- Special price promotions for 'first-time' customers



### Islandwide – Singapore

- Tech savvy and convenience seeker (majorities)
- Mobility and convenience functionalities (fuss-free)
- Easy-to-navigate website for all (for all ages)

### Integrations

- ✦ Integration of CRM, Inventory, Database and E-commerce website
- ✦ Marketing e-mails send out – personalized and individualized
- ✦ Provide Mobile access

## Recommendations



- Irmaya Wedding Gallery need to build up a solid brand awareness with a prominent and consistent strategy to expand and stay relevant in digital technology era
- It is recommended that Irmaya Wedding Gallery focus on marketing strategy to create professional-looking marketing assets by working on product(s)/service(s) photos and videos, website and convey adequate contents in Facebook and Instagram
- Irmaya Wedding Gallery should continue to focus on customer service and sense of resourcefulness to sustain customer satisfaction which can lead to more positive referrals or word-of-mouth, which is very valuable source of lead generation and acquisition

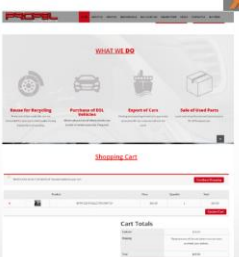
## Situation Analysis

Competitors Analysis – E-Commerce (ONLINE)



### Facebook for Propel Auto Parts

- Social Presence
- Link back which improves Google Ranking



### Website & Online Store

- Contact Details
- Services and products information
- Platform for selling/paying online
- Provides Delivery

## Strategy

Implementation & Change Management



- Organize and structure the inventory management
- Able to track performance and inventory in real time
- Consider use of barcode system to track inventory
- Provide mobility and convenience to consumers
- Re-strategize and be invested in online business with own shopping store & website
- Transfer the success of your Carousell project to your own site
- Provide a online booking system for pickup of cars to be scrapped or for installation of purchased spare parts
- Provide visibility of testimonials and reviews from customers
- Embrace the online and e-commerce movement
- Provide staffs with easy-to-use tools to enhance their work performance like via App/smart device
- Provide stakeholders with reports and dashboards to enable better control of their business in real-time

## Recommendations



- Irmaya Wedding Gallery should consolidate and coordinate marketing efforts to project a consistent brand image to customers, online and offline, and to provide information on the business (Prepare weekly EDMs materials for marketing contents)
- Irmaya Wedding Gallery can consider working with some bloggers/influencers and media to create buzz about wedding services and upcoming events/exhibitions for brand exposure and encourage engagement from the audiences
- Irmaya Wedding Gallery can consider benchmarking against Comet Molek and Anggun by Mastura in terms of execution and creation of marketing content and assets (Digital marketing and content management) where your target audiences are the millennials (Digital generation)

## White Angel's 5S Goal Performance

How White Angel Caregivers Consultancy Sell, Serve, Sizzle, Speak and Save today.

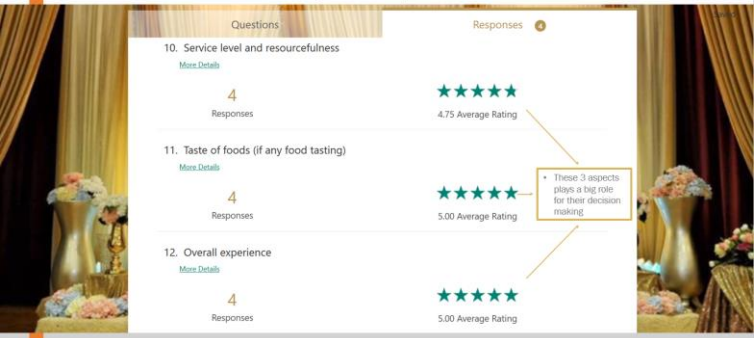


1. Through own Website:  
[www.whiteangelcare.com.sg](http://www.whiteangelcare.com.sg)



2. Referral from hospital for after care upon discharged

## Survey Responses



## Recommendations

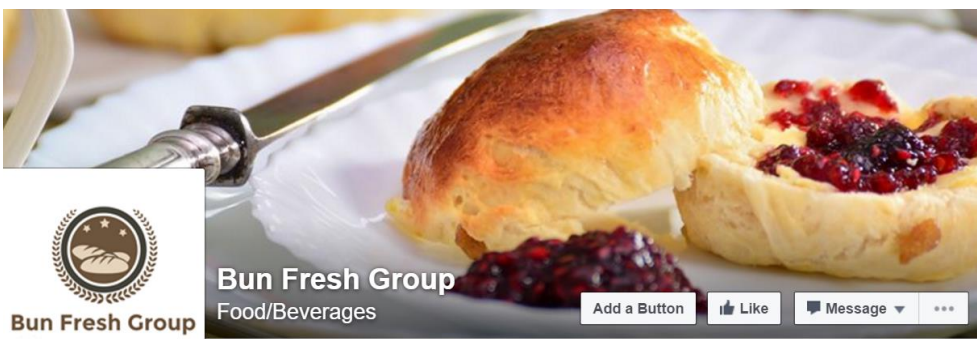


- Decoration and food catering is quoted as an important factor to decision making process and plays as Irmaya Wedding Gallery strength – Irmaya can put more emphasis to continue to upgrade their services on these
- When the website/blog is ready, Irmaya Wedding Gallery should invest in SEO and SEM to make the brand more relevant, searchable and visible to its target audiences and to always track performance
- Irmaya Wedding Gallery should start creating some footprint (digital) to be and stay relevant and searchable to be visible and to instill confidence in customers who are researching for wedding services
- Irmaya Wedding Gallery should also start producing and posting relevant contents (as part of content management) in Facebook and Instagram, and link it to the new website to generate more clicks and be transparent with original contents

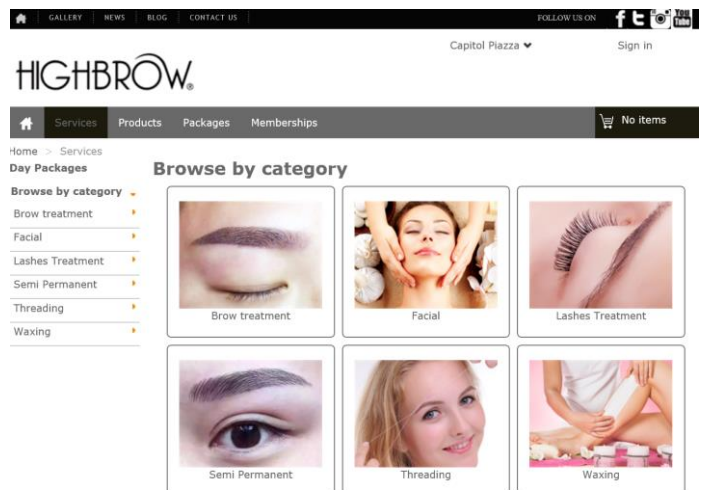
CupCake Designs Website  
visitor tracking with GA & FB.



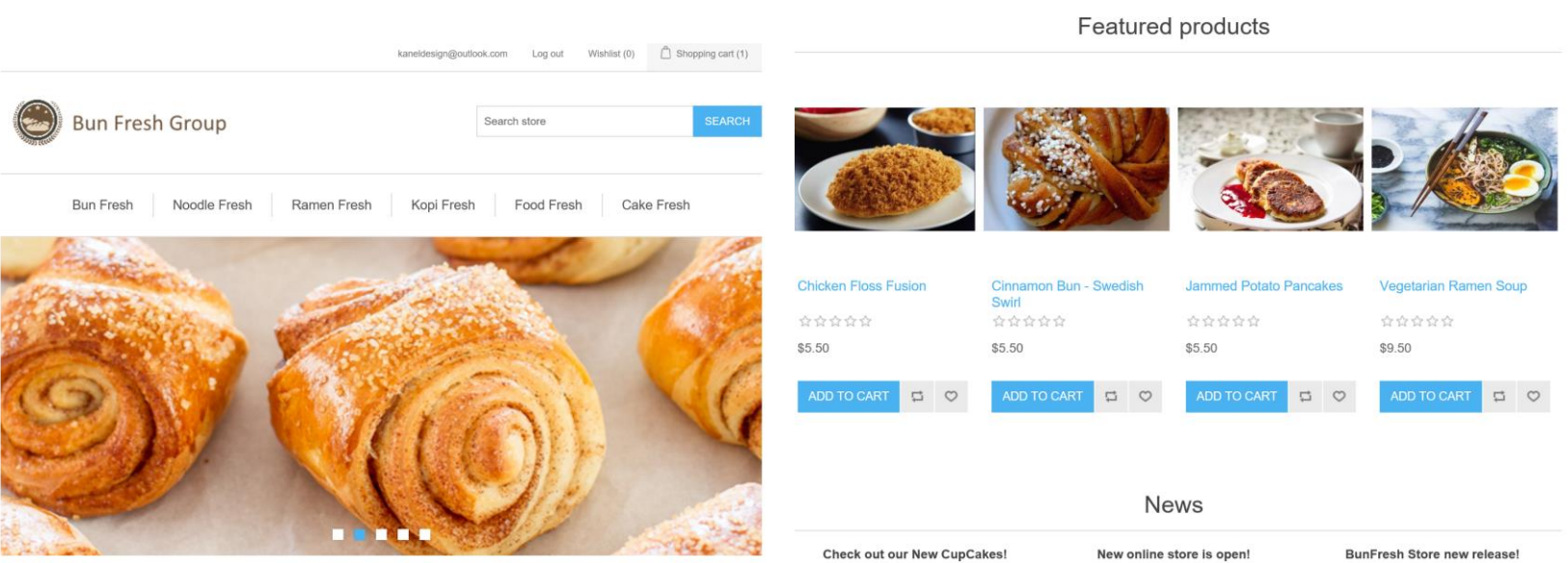
BunFresh Facebook & WebStore  
Google Analytics update in Power BI



Setup of WebStore



BunFresh WebStore - Cloud based Content Management System



Setup of Mobile App – iOS/Android

