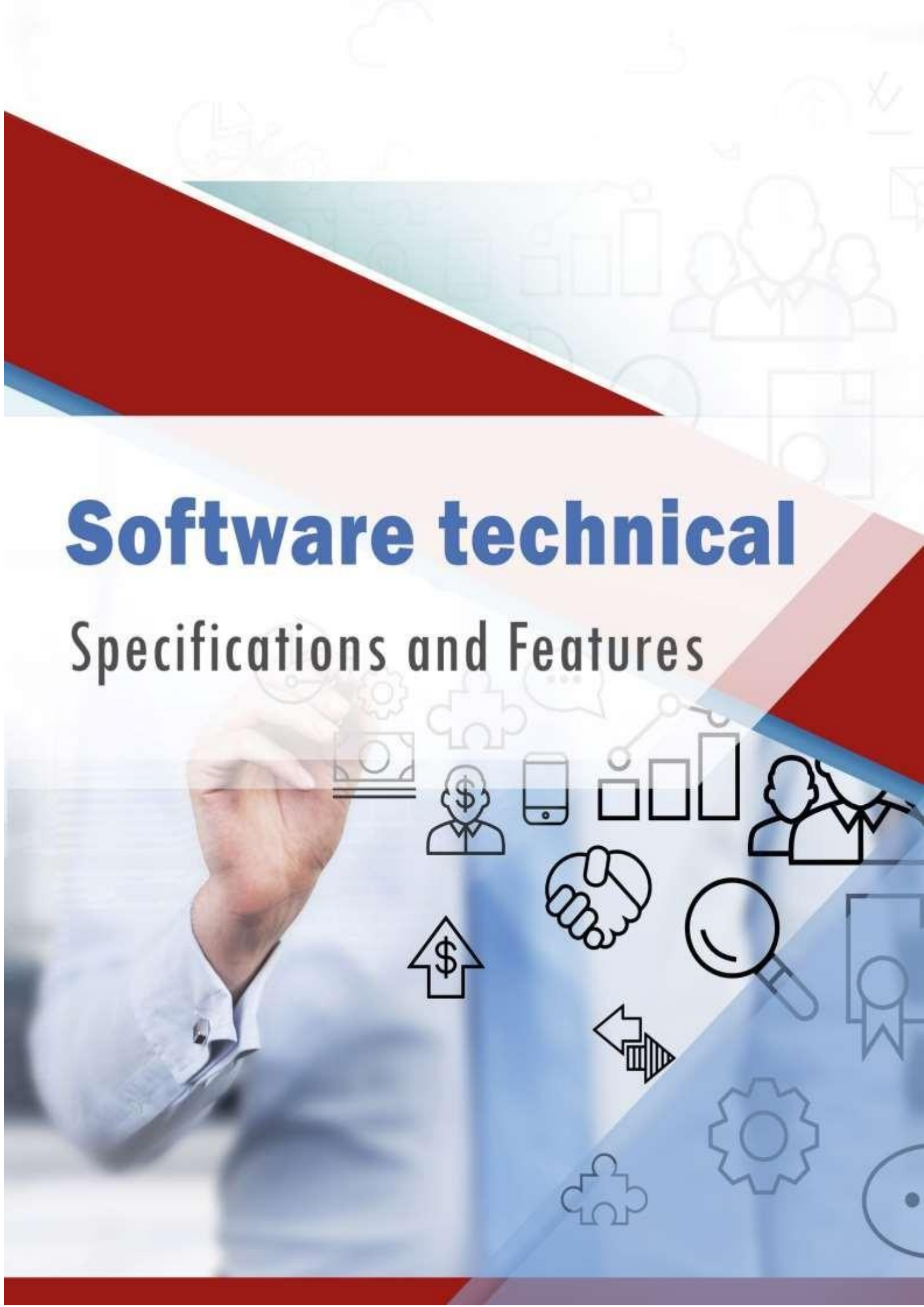
Software technical

Specifications and Features



ROS – Project

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1 Executive Summary

This document provides a detailed look into the different aspects of ROS – Restaurant One Solution. The details of the document consider the valuable inputs provided by all the stakeholders from the team over the course of the study. The purpose of this document is to showcase the different artifacts developed and delivered after interactions between ROS and TalenciaGlobal.

2 Introduction

ROS is a software designed to boost a restaurant's productivity and unlock profit by eliminating errors and automating fresh operational processes. Be it accounting, cash management, personnel management, inventory management, or delivery services reconciliations, you have a complete package bundled into one comprehensive software solution.

Key Goals defined are:

- Enable Operational Efficiency with KPI driven solution measuring every key activity with critical control points
- Increase Revenue and Profits for a Restaurant with High Quality Workflow, Automation and Business Intelligence
- Single Identity – One common Identity for Uses, Restaurants enabling SAAS and creating high quality and consistent data and identifies
- Compliant and Secure Data, Integrated – Each account owns it's data with necessary compliances and security measures. Also data integrated into one place across sources

3 Modules

[1] **Cash Management** – Poor cash management is one of the prime reasons why many restaurants fail to thrive. Disparate systems give rise to cash leakages and reconciliation headaches. Restaurant One Solution is integrated with POS, Delivery Partners and Banks Providing single source of data, so you know exactly what the source of daily sales/takings are and what has been banked.

[2] **HR & Scheduling** - A winning formula for running a successful restaurant is finger licking food and excellent customer service. You take care of tasty cuisine and let ROS take care of ensuring that you are always resourced well to provide that excellent customer service. There is no greater satisfaction than to see repeat customers.

[3] **Inventory Stock Management -** Restaurant One Solution is designed to help you optimize your supply chain and streamline procurements, delivery, and inventory counting. Switching to our inventory management software means getting your food cost under control, saving hundreds of hours in bookkeeping every month. Using our end-to-end inventory management module, you can automate inventory & procurement processes, interlocation transfers and deliver the items you need — at the right time, to the right place, at the right cost.

[4] **Mobile App -** In developing this all-in-one restaurant management solution, we didn't bury the user experience element under the pile of module-driven priorities. As a result, we now have a software interface that's visually appealing and works seamlessly across desktop computers, laptops, tablets, and industrial machines. What's more, we clearly understood that a full-fledged native mobile was a necessary component of the entire solution, so we didn't stop there. Our software team went the extra mile to put their thoughts, energy, and creative efforts into building a mobile version of this software that's as powerful as any feature-rich mobile app out there is.

[5] **Dashboard & KPI Analytics -** Our dashboards and data analytics will transform your company into a metrics driven FoodTec business. Managers can leverage these staff dashboards to drive staff productivity, brand quality and company profit. These dashboards open new opportunities for your Directors and Executives. Executives can design business strategies, which ROS data scientists can transform into staff KPIs and dashboards. This will give executives visibility into the inner workings of their changing business and will help fine tune your profit engine.

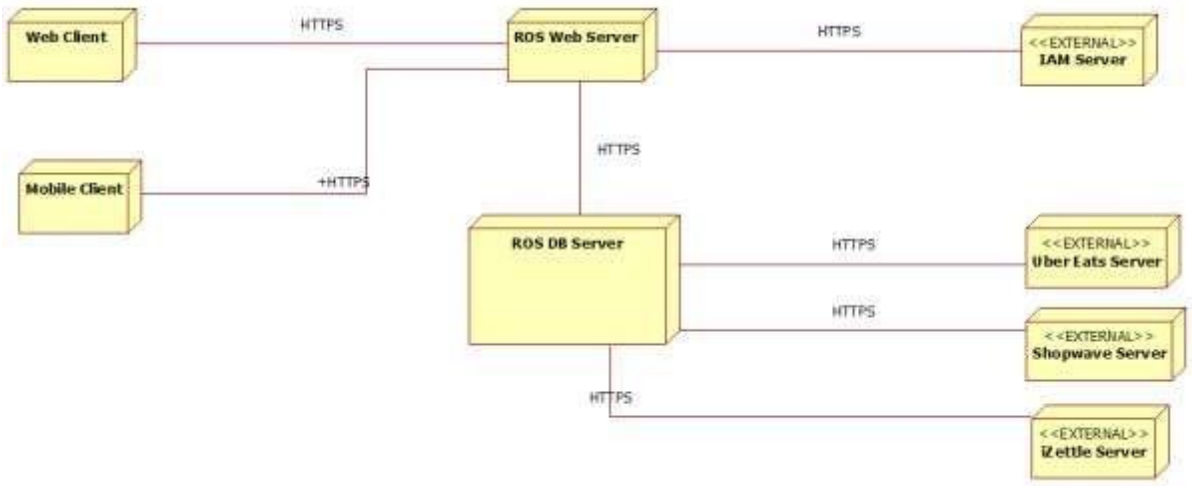
4 Application Statistics

5 Actors

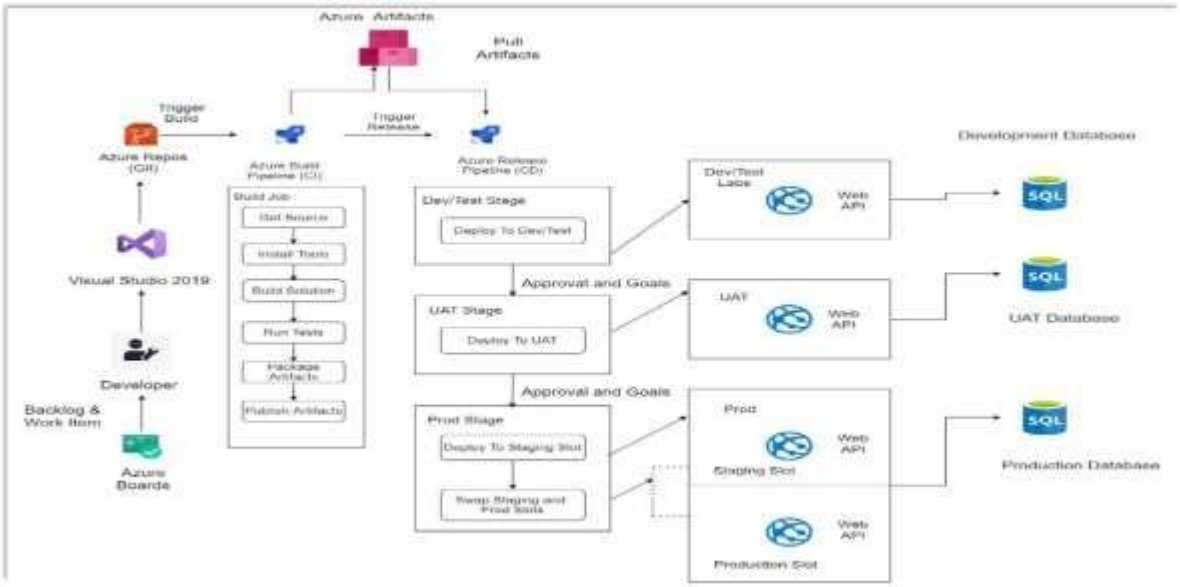
#	Title	Description
1	Business	Users who look at primarily financials and numbers - Reports and Dashboards - KPIS, Metrics with regards to business and financials
2	Management	Users who work with the system at the Business Process level. View the system from KPIs across the process like Operations, sometimes including financials. Etc.
3	Operations	Users who manage the system. They will be able to perform higher level tasks on the system like approvals, configuration etc. Will be able to view the dashboards and KPIs with regards to their function or across functions
4	Execution	Users who work with the system. They will be able to perform last mile tasks on the system. Can view dashboards and reports based on the privileges and views considered
5	Administration	Users who administer the system, usually involved in configuration and migration enabling other users to work with the system

Sr no.	Role Name	Role Description	Role Code
1	Super Admin	Director of the ROS Organisation	SAD
2	Account Officer	Employees of ROS	ACO
3	Client Admin	Director of the organisations who purchased the application from PAS	CAD
4	Operations Manager	Employees of organisations who purchased the application from PAS	OMR
7	General Manager	General Manager of Client Restaurants	GMR
8	Assistant Manager	Assistant Manager of Client Restaurants	AMR
9	Supervisor	Supervisor of Client Restaurants	SUP
5	FOH	Front Of House Employees of Client restaurants	FOH
6	BOH	Back of House Employees of Client restaurants	BOH

6 System Architecture



7 DevOps View



8 Key Compliances and Security

The Key Security and Compliance features of the ROS system is mentioned below. Periodically additional security measures and features will be incorporated into the system raising the bar for security for all applications in the system. Subsequently document would be updated of the same.

1. **Transport and Transmission Data Encryption**

   We have implemented the EV SSL security and encryption certificate. All requests to the server are implementing and encompassing the certificate requirements. Data sent back and forth are encrypted ensuring safe transactions for the user.

2. **Unique User Identification - IAM**

   Any user in the system is uniquely identified. Unique user Id is given to track the users when they switch applications within the eco system and enabling single sign on feature that would be implemented in the future. Identity Management Solution to be implemented.

3. **User Privileges and Restricted Access**

   Each critical user action to be performed on the system is bound by privileges. Users and Roles are mapped with privileges to the features provided in the application. These are stored in the database and only if the user has necessary privileges to perform an action, he/she will be able to do so.

4. **Audit Trail**

   User would perform many actions in the system resulting in many events being raised. We are enabling tracking of all events performed by the user. We can run reports on the same to analyse the usage pattern to ensure application is safe and secure. Apart from this we would also have a logical flow and sequence to track the user's footprint on the server.

5. **Error Detection and Logging**

   Errors and exceptions that occurred in the system is logged. This helps us to analyse the errors to ensure higher accuracy and performance of the application. We are also able to get analytics and dashboards with regards to errors and exceptions.

6. **Restricted and Authenticated Database Access**

   Access to databases used for the applications are via usernames and passwords. They must be mapped and authenticated when a call from an application is made ensuring database security.

7. **Data Security**

   Passwords and NID should be encrypted and stored in database.

9 Integrations

10 Classification of Dimensions

Below mentioned are the dimensions in which the backlogs/use cases solutions are to be defined

1. Data Gathering
2. Data Generation
3. Data Dictionary
4. Data Cleaning
5. Data Migration - Connect
6. Workflows
7. Transformation and Rules
8. Data Security and Compliance
9. Design and Mart
10. Visualization

11 Product Backlog

#	Feature ID	Epic	Module	Feature
1	FE001	ETL Process	Project Orientation	Project Walkthrough
2	FE002	ETL Process	Project Orientation	Project URL Exploration
3	FE003	ETL Process	Project Orientation	Modules and Features Understanding
4	FE004	ETL Process	Project Orientation	Requirements Documentation
5	FE005	ETL Process	Data Management	Create Data Dictionary
6	FE006	ETL Process	Data Management	Understand Data Set
7	FE007	ETL Process	Data Management	Create Sample Data for Data Set
8	FE008	ETL Process	Master Data Migration	Currencies Migration
9	FE009	ETL Process	Master Data Migration	Products Migration
10	FE010	ETL Process	Master Data Migration	Subscriptions Migration
11	FE011	ETL Process	Master Data Migration	PDQ Machines Migration
12	FE012	ETL Process	Master Data Migration	Countries Migration
13	FE013	ETL Process	Master Data Migration	Business Modules Migration
14	FE014	ETL Process	Master Data Migration	Features Migration
15	FE015	ETL Process	Master Data Migration	Roles Migration
16	FE016	ETL Process	DW Schema	Identify Dimensions and Facts
17	FE017	ETL Process	DW Schema	Create DW Schema
18	FE020	ETL Process	Transaction Data Migration	Migrate Clients Data
19	FE021	ETL Process	Transaction Data Migration	Migrate Restaurants Data
20	FE022	ETL Process	Transaction Data Migration	Migrate Users Data

21	FE023	ETL Process	Transaction Data Migration	Migrate Sales Data
22	FE018	ETL Process	OLAP Mart	Create Mart Design for OLAP
23	FE019	ETL Process	OLAP Mart	Create Mart DB for OLAP
24	FE024	Analytics	Client Dashboard	View Client Summary
25	FE025	Analytics	Client Dashboard	View All Clients
26	FE026	Analytics	Restaurant Dashboard	View Restaurants Summary
27	FE027	Analytics	Restaurant Dashboard	View All Restaurants
28	FE028	Analytics	Users Dashboard	View Users Summary
29	FE029	Analytics	Users Dashboard	View All Users
30	FE030	Analytics	Sales Dashboard	View Sales Summary
31	FE031	Analytics	Sales Dashboard	View Sales Analytics

12 Rules

1. Every Client, Restaurant and User should be uniquely identified in the system.

2. User package/subscription also should be captured. If the subscription has a limit of xx users, then user shouldn't be created. An error should be notified

3. User Name and Unique ID cannot be changed during the migration process

4. Every Cash-up is for a specific restaurant. Each day Cash-up is generated at the end of day. This captures information about sales and expenses for the day.

5. Third party integration might be there for restaurants if yes, such data has to be tagged and migrated

6. Tax information is available. Depends on the country. VAT if it is UK, GST if it is India. Data should capture information accordingly. If there's a mismatch should be flagged for errors and reported back.

7. Net Sales for the day is taken with Sales + ThirdParty – CashnPdq – Wage Advances. This must be recorded in the system.

8. Email Ids and Phone numbers must be formatted and cleaned and stored in the database.

9. Sales data must relate to every record across the sheets and then analytics must be generated to analyse sales across restaurants and other dimensions

10. The same structure of data will be available everyday to migrate and transform. Repeatable cycle for migration and transformation should be established.

11. Every user should have a role and subscription attached.

12. We need to capture the time of swipe. If user is late then we need to send a notification to the manager that the user is late. Also, user shouldn't be able swipe in to restaurants which he/she is not entitled to. If user tries to swipe in, then a notification has to be sent to manager about a policy violation. Import this data from csv file received from ROS team

13 Data Set

- Clients
- Restaurants
- Subscriptions
- Users
- Currencies
- Departments
- Roles
- Countries
- Cash_up
- Sales
- Tax_info
- Orders
- Delivery
- Expense
- Banking

14 Deliverables

The below mentioned deliverables need to be submitted to the client

1. Project Requirements Docket
2. Data Set : Original and Formatted
3. Data Dictionary
4. Data Architecture
5. Product Backlog
6. Workflows and Rules
7. Data Mart Design
8. Visualizations
9. Project Plan
10. Project Presentation