DINING CLOUD

Contactless Restaurant Management Service

Project Vision Document

Version 1.3

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Revision History

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1 Introduction

This document outlines the vision for the Contactless Restaurant Management Service. The need for a service of this kind is more prevalent than ever due to the current on-going health crisis. CRMS provides a mechanism for customers and restaurant staff to take part in the dine-in experience will following social distancing mandates. This vision document aims to provide information that will ensure the project goals and requirement are well understood.

1.1 Purpose

The purpose of the Project Vision Document is to define the desired outcomes for our project when the business has implemented our product. This document highlights the business analysis conducted to conclude that the undertaken project is one that has good marketability and solves the business problem. The document establishes a business opportunity, purports a solution, analyzes stakeholders and establishes system requirements.

1.2 Scope

1.2.1 In Scope

This product vision document applies to the Contactless Restaurant Management Service (CRMS) which will be developed by the T14 development team. This service will be provided by two products; a customer-facing mobile application and web application for the restaurant staff/operators. The mobile application will coordinate reservations and contactless dine-in experience. The restaurant application will consist of a dashboard to manage operations and provide analytical insights. The mobile application will interface with the web application to deliver the overall management service.

1.2.2 Out of Scope

The Contactless Restaurant Management Service is primarily focused on the restaurant dine-in experience and will not provide functionality pertaining to takeout or delivery services. The restaurant management aspect of the service does provide many operational features to the operator but any functionality relating to payroll will not be included in this service.

1.3 Definitions, Acronyms, and Abbreviations

Term	Explanation
API	Application Programming Interface
CI/CD	Continuous Integration/Continuous Deployment
CRMS	Contactless Restaurant Management Service
UI	User Interface

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1.4 References

Reference File Name	Version	Description

Name	Link
MenuSifu	https://www.menusifu.com/en/
Stripe	https://stripe.com/docs

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2 Positioning

2.1 Business Opportunity

The business opportunity being met by this project is in reaction to the novel pandemic laws and by-laws passed to ensure the safety of the public. These safety measures have resulted in hefty monetary losses for businesses due to the nature of current restaurant logistics violating these safety measures. Businesses require methods to continue offering their services while abiding by the regulations laid out by the Ministry of Health.

2.2 Problem Statement

The Problem of	providing a safe and sustainable dining experience in the	
THE FIODICITION	current health crisis environment	
affects	restaurant staff/operators and customers	
the impact of which is	trying to provide the same satisfactory service while trying to	
the impact of which is	abide by the new food service mandates	
	a cost effective and easy to use application that restaurants	
	can use to manage staff and services. The product will	
	provide the customers a way to take part in dining service	
	and comply to precautions set out by law makers. The	
	solution will set out to provide to separate products; a mobile	
a successful solution would	application for the customer and web application for the	
be	restaurant. The mobile application will provide the customers	
De	with the ability to make reservations and dine in at	
	restaurants with minimal contact with staff. The web	
	application will provide a dashboard to restaurants that will	
	allow for efficient management of operations. The restaurant	
	operator and others with elevated will be privy to insights on	
	customer dining habits.	

Table 1 Problem Statement

2.3 Product Position Statement

For	Restaurant customers and workers	
Who	To serve customers while adhering to social distancing guidelines	

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The contactless restaurant	is a mobile and web application	
management service		
That	will allow customers to dine while adhering to social distancing guidelines	
Unlike	MenuSifu provides various services like POS system, customer ordering, online ordering, services in multiple languages, reporting, mobile ordering, reservations, staffing, inventory management and mobile payment.	
Our product	Our application is designed specifically for in-house logistics. MenuSifu does not have any services that continue to serve the customer once they've arrived at the restaurant. Our product will continue to serve the customer until they've finished dining at the restaurant.	

Table 2 Product Position Statement

2.4 SWOT Analysis

Strengths	Weaknesses
Easy to adapt to different restaurant models –	Requires high volume of data from many
modular	users to be profitable.
Reduce communication between staff and	Fault tolerance – requires backup data and
customer.	low-down times.
User Friendly.	
Opportunities	Threats
This app will help small business owners who	MenuSifu – earlier to market, mature
are suffering in managing customer.	company in the same industry, more
	resources
Unique and safe dining experience during the	Market cycles – contraction and trough
current situation which will help in running	phases will see less people dining out at
business as well as following all the guideline	restaurants
given by health sectors.	

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3 Stakeholder and User Descriptions

3.1 Stakeholder Summary

Stakeholder Name	Represents	Role
Project Manager	This is a stakeholder that	Responsible for managing
, , ,	supervises the development	project financials, project
	of this project.	status report, change
	. ,	management, governance,
		role identification and
		business communication to
		the stakeholders.
Developer	This is a stakeholder that is	Responsible for the design,
	primarily for developing web	implementation, test, and
	and mobile applications of	deployment and maintenance
	this project.	of this product.
Restaurant Owner	This is a stakeholder that	Responsible for opening and
	uses this product.	running restaurants
		professionally with the help of
		this project.
Restaurant Customer	This is a stakeholder that is	Responsible for providing
	interested in this product.	feedback on the product and
	They are the end users of	sharing the product with
	this product.	others.
Restaurant Staff	This is a stakeholder that	Responsible for maintaining
	uses this product and take	daily restaurant business,
	benefit from its features.	response to customers'
		request and following
Ovelity Assumes Table	This is a state halden hale	managers' leadership.
Quality Assurance Team	This is a stakeholder help	Responsible for planning,
	meet clients' demands and	observation and inspection,
	expectations most fully.	establishing policies and
		procedures, defining job descriptions and recruiting
		talented team members to
		perform tasks.
Market Research Analyst	This is a stakeholder that	Responsible for gathering
Warket Research Analyst	focuses on reducing the risks	and analyzing data on
	related to this project.	consumers and competitors.
	rolated to time project.	They study market conditions
		to examine potential sales of
		a product or service. They
		help companies understand
		what products people want,
		who will buy them, and at
		what price.
Software Architect	This is a stakeholder that	Responsible for making high-
	communicates with	level design choices and
	businesses and clients to	trying to enforce technical

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design and execute solutions with a team of software	standards, including software coding standards, tools, and
engineers	platforms.

Table 3 Stakeholder Summary

3.2 User Summary

User Name	Description	Responsibilities	Stakeholder
Restaurant Customer	End user of the system	Sign in to the system, order through app, carry your own device, check if order is placed properly	self
Restaurant Staff	End user of the system	Confirm reservation, check day to day system communication, receive orders.	self
Restaurant Owner	End user of the system	Sign in to the system, check all terminal, check if system is working properly, make sure all the menu items are on the app.	self

Table 4 User Summary

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4 Stakeholder Requirements

ID	Requirement	Stakeholder
4.1	Able to update menu, view customer data and visualizations, view / generate monthly reports, make / view seating plan and	Restaurant Owner
	view/ manage shifts	
4.2	Able to create user profile, sign in, customize user profile, view restaurant and location, make restaurant review, make Reservation, view or update reservation, make payments, view receipts, sign into/ out restaurant and make table request	Restaurant Customer
4.3	Able to sign in, view / manage payments, view /	Restaurant Staff
	manage table requests, view / manage reservation requests, send reservation	
	verification E-mail, and confirm item requests	
	Table 5 Otaleshalder Bernderen ande	

Table 5 Stakeholder Requirements

5 System Features

Customer Mobile Application

ID	Feature	Stakeholder Requirement ID
5.1	Create user profile User should be able to create a new profile	4.2
5.2	Sign in User should be able to sign into application	4.2
5.3	Customize user profile Customer should be able to customize their profile if needed	4.2
5.4	View restaurant and location User should be able to view restaurants and their location	4.2

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ID	Feature	Stakeholder Requirement ID
5.5	Make restaurant review	4.2
	User should be able to make	
	a review on a restaurant if	
	they wish to	
5.6	Make Reservation	4.2
	User should be able to make	
	reservations if available	
5.7	View or update reservation	4.2
	User should be able to view	
	or update reservation	
	whenever required.	
5.8	Make payments	4.2
	User should be able to make	
	payments through the	
	application	
5.9	View receipts	4.2
	User should be able to view	
	their receipts	
5.10	Sign into restaurant	4.2
	User should be able to sign	
	into the restaurant when they	
5.44	arrive.	4.0
5.11	Sign out of restaurant	4.2
	User should be able to sign	
	out of restaurant when	
5.12	leaving Make table request	4.2
5.12	User should be able to make	4.2
	a table request	
5.13	Make an item request	4.2
3.13	User should be able to make	4.2
	an item request	
5.14	Alter item request	4.2
0.17	User should be able to alter	1.2
	their item requests if any	
	changes need to be made	
5.15	Sign out	4.2
	User should be able to sign	·· ·
	out of application	
<u> </u>	·	

Table 6 System Features

Restaurant Web Application – All Users

ID	Feature	Stakeholder Requirement ID
5.16	Different privileges	4.2, 4.3
	Web application should provide two privileges	
	 owner and restaurant staff 	

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ID	Feature	Stakeholder Requirement ID
5.17	Sign in	4.2, 4.3
	User should be able to sign into application	
5.18	View / Manage payments	4.2, 4.3
	Users should be able to view and manage	
	payments made to restaurant	
5.19	View / Manage table requests	4.2, 4.3
	Users should be able to view and manage	
	customer table requests	
5.20	View / Manage reservation requests	4.2, 4.3
	Users should be able to view and manage	
	reservation requests from customers	
5.21	Send reservation verification E-mail	4.2, 4.3
	Users should be able to send reservation	
	verification E-mail to customers	
5.22	Confirm item requests	4.2, 4.3
	Users should be able to confirm item requests	
	from customers	

Restaurant web application - owner only

ID	Feature	Stakeholder Requirement ID
5.23	Update menu	4.3
	User should be able to make changes	
	to the restaurant menu such as adding	
	new dishes, removing dishes etc.	
	whenever required	
5.24	View customer data and	4.3
	visualizations	
	User should be able to view customer	
	data such as Time spent, location, food	
	ordered etc.	
5.25	View / Generate monthly reports	4.3
	User should be able to view and	
	generate monthly reports	
5.26	Make / View seating plan	4.3
	User should be able to view seating	
	plan or make a new seating plan for the	
	restaurant	
5.27	View/ Manage shifts	4.3
	User should be able to view and	
	manage the shifts of their employees	

Table 7 System Features

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6 Assumptions

- All resources required will be available.
- · Team members possess all the required skills.
- The project scope will not change once finalized.
- Workstations are available
- System pre-configured with software and programs
- CI/CD technology available
- All equipment is in good condition
- Communication is concrete and clear between all stakeholders

7 Constraints

7.1 Security

Payments are done securely through Stripe API

Authentication of the user is by username and password.

7.2 Usability

Easy to use application with simple UI.

7.3 Responsiveness

System responds quickly to user commands and changes in the system.

On average, system should respond to user requests and changes in the system in 0.7 seconds.

7.4 Money

Features added to application will be limited to monetary compensations.

7.5 Time

Features added to applications will be limited to delivery date required by client.

7.6 Scope

Features are relative to the scope expected by client.

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