# **Operational Concept Description (OCD)**

**Fooder** 

**QWERTY** 

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# **Version History**

Date	Author	Version	Changes made	Rationale
3/08/17	Q's	1.0	· Original template v1.0	· Initial draft
3/08/17	BK	1.1	· Added everything but diagrams	<ul><li>Added all the written parts</li><li>Added all the tables</li></ul>
3/12/17	BK	1.2	· Added 2.3 and 3.3	· Added some tables
3/14/17	BK	1.3	· Added the rest	· Finalized the tables

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#### 1. Introduction

#### 1.1 Purpose of the OCD

This document provides in detail, the shared visions and goals of the stakeholders of "Fooder" for people that have smart phones. The stakeholders of the project are Ramin Moazeni, as the stakeholder, smartphone users, as users, and Team Qwerty, as the maintainer.

#### 1.2 Status of the OCD

Status of OCD is currently in its initial developmental stages as version 1.0. Our current scope of Fooder is to create a working prototype that will allow users to swipe left or right to either decline the restaurant or add it to user's restaurant bucket list. Users will also be able to immediately go to the restaurant using the Map API built into android devices. As we continue on through our developmental phases and as challenges emerge, we will re-evaluate to accommodate our challenges while maintaining focus on finalizing our application.

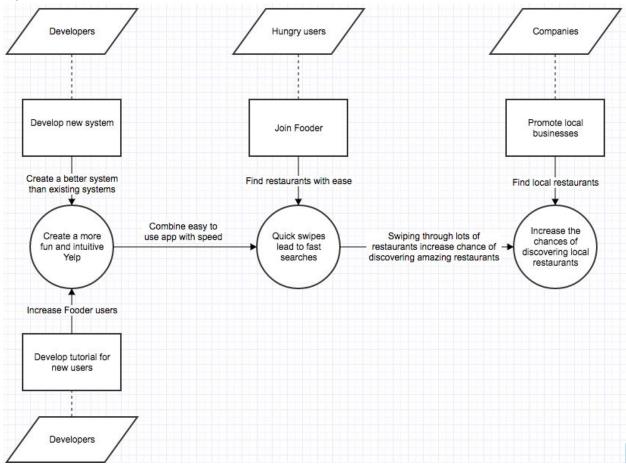
#### 2. Shared Vision

Table 1: The Program Model

Assumptions  People are no longer satisfied with Yelp's design  Short on time and need quick suggestions			
Stakeholders	Initiatives	Value Propositions	Beneficiaries
<ul> <li>QWERTY         <ul> <li>(Developers)</li> </ul> </li> <li>Professor             Moazeni</li> <li>App users</li> <li>Small             businesses</li> </ul>	<ul> <li>Learn Android Studio</li> <li>Develop new system</li> <li>Develop tutorial for easy learning</li> <li>Promote users to join Fooder</li> </ul>	<ul> <li>Gain knowledge on mobile development</li> <li>Creating an easy to use application that can join the Google Play store</li> <li>Quick to use with one hand</li> <li>Create a fair way to find restaurants</li> </ul>	<ul> <li>Users of "Fooder"</li> <li>Class of CS161</li> <li>QWERTY</li> <li>Businesses</li> </ul>

#### 2.1 Benefits Chain

Figure 1: Benefits Chain Model for Fooder developers



#### 2.2 System Capability Description

OUR PROJECT IS Fooder

FOR *smartphone users* 

WHO can't decide on a restaurant

Fooder IS AN android application

THAT suggests restaurants nearby in a simple manner

UNLIKE Yelp

OUR WEB SERVICE is quick and easy to use

# 2.3 System Boundary and Environment

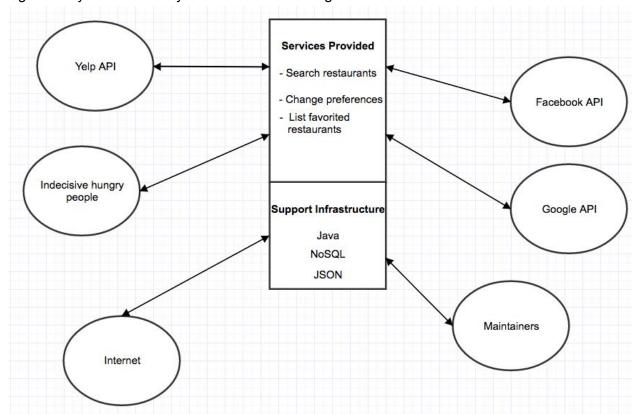


Figure 2: System Boundary and Environment Diagram for Fooder

# 3. System Transformation

# 3.1 Information on Current System

#### 3.1.1 Infrastructure

Android Studio Laptops Google Firebase Google Maps Yelp API

#### 3.1.2 Artifacts

### Class Diagram

Provides an organized diagram that describes the structure of our app

#### Use Case Diagram

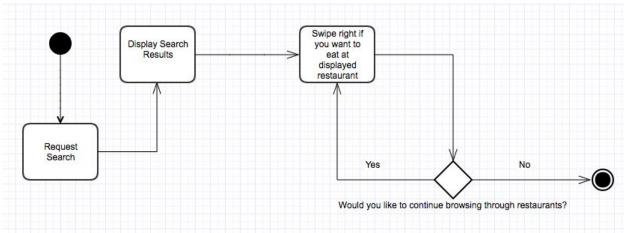
Provides a list of actions that help model the functionality of our app using actors and use cases

#### Benefit Chain Diagram

Provides a list of win conditions to achieve during the project

#### 3.1.3 Current Business Workflow

Figure 3: Business Workflow for Fooder



# 3.2 System Objectives, Constraints and Priorities

#### 3.2.1 Capability Goals

Table 2: Capability Goals

Capability Goals	Priority Level
OC-1: The application is capable of displaying restaurants near the user	Must have
OC-2: The application is fast. It displays images in a timely manner.	High

OC-3: The application is able to store favorite restaurants	Medium
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#### 3.2.2 Level of Service Goals

Table 3: Level of Service Goals

Level of Service Goals	Priority Level	Referred WinWin Agreements
LOS-1 Users can find what restaurant they want in a matter of minutes	Very High	
LOS-2 Users will be shown places they are likely to visit	Medium	

### 3.2.3 Organizational Goals

**OG-1:** Improve customer satisfaction

**OG-2:** Improve speed via faster querying

**OG-3:** Learn how to manage databases

#### 3.2.4 Constraints

CO-1: Android Operating System: Application must be able to run on Android platform

**CO-2: Zero Monetary Budget:** All API's and features used for the development of the application must be free

CO-3: Java as a Development Language: Java must be used for android

# 3.2.5 Relation to Current System

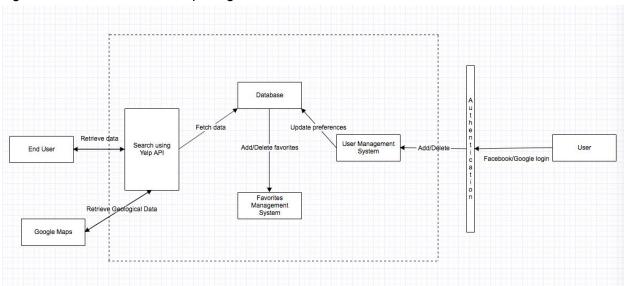
Table 4: Relation to Current System

Capabilities	Current System	New System
Roles and Responsibilities	N/A	N/A
User Interactions	User searches for random restaurant around the area	System will learn preferences
Infrastructure	No infrastructure	Have our own API and database
Stakeholder Essentials and Amenities	New restaurants could be missed	Users can find soft opening restaurants
Future Capabilities	N/A	Will be able to view other people's favorites

# **3.3 Proposed New Operational Concept**

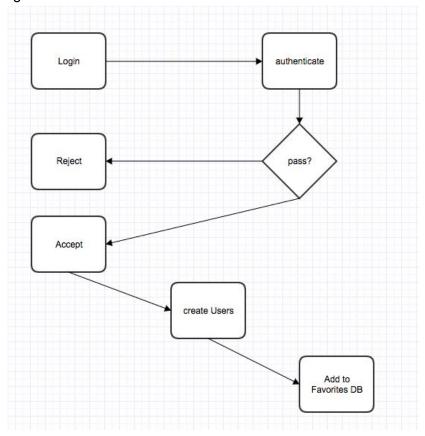
# 3.3.1 Element Relationship Diagram

Figure 4: Element Relationship Diagram for Fooder



#### 3.3.2 Business Workflows

Figure 5: Business Workflow for Fooder



# 3.4 Organizational and Operational Implications

# 3.4.1 Organizational Transformations

Nothing at the moment

# 3.4.2 Operational Transformations

N/A