Augmented Reality Food Menu

Version <1.0>

Revision History

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| 17/11/2017 | 1.0 | Add details for Introduction, Architectural Goals and Constraints, Use-Case model and Logical View | Xuan-Vinh Nguyen,  Phu-Khoa Nguyen |
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# Introduction

This document provides a comprehensive architectural overview of the system, using a number of different architectural views to depict different aspects of the system. It is intended to capture and convey the significant architectural decisions which have been made on the system**.**

This application is being developed by REKT to mainly support displaying 3D model when scanning an appropriate picture. Besides, the program enables chefs as well as waiters to handle orders.

# Architectural Goals and Constraints

There are some key requirements and system constraints that have a significant bearing on the architecture. They are:

• The application provide tool for 3 different types of users: restaurant’s customers, chef and waiter. Therefore, there will be 3 different interfaces for this program.

• The list of orders on waiter and chef’s devices must be updated over time as customer orders meals. Hence, an implication of real-time database is indispensable.

• There would be no more than 1 second delay when scanning picture for displaying 3D model. Hence, all of the models will be stored offline.

• All performance requirements, addressed in the Vision Document [1], must be taken into consideration as the architecture is being developed.

# Use-Case Model



## Use-case: View food 3D model

This use-case describes how user views 3D model.

## Use-case: Share

This use case describes how user share the model on Facebook. It is an <<extend>> of view 3D model use-case.

## Use-case: Log in with Facebook

This use-case describes choice for user and admin to sign in application. It occurs when users/admins use the share function. This use-case is a ≪include≫ of use-case Share.

## Use-case: Log out.

This use-case describes how user logs out application. This use-case is a ≪extend≫ of use-case Share.

## Use-case: Scan menu.

This use case describes how the app scan menu. It occurs when users point their phone's camera into the menu. It is a <<include>> of use-case View food 3D model.

## Use-case: Read comment:

This use case describes how user read comment. It is an <<extend>> of view 3D model use-case.

## Use – case: Comment

This use case describes how user comment on a meal. It is an <<extend>> of read comment use-case.

## Use-case: Rate

This use-case describes how use rate a meal. It is an <<extend>> of view 3D model use-case.

## Use-case: Interact with model

This use-case describes how users interact with model. It is an <<extend>> of view 3D model use-case.

## Use-case: Customize model

This use-case describes how users customize model. It is an <<extend>> of view 3D model use-case.

## Use-case: Order

This use-case describes how users order meal. It is an <<extend>> of view 3D model use-case.

## Use-case: View ordered meals

This use-case describes how users view ordered meal. It occurs when users finish ordering. It is an <<extend>> of use-case Order.

## Use-case: Handle orders

This use-case describes how users handle ordered meal.

## Use-case: View orders

This use-case describes how users (restaurant staff) view ordered meals in order to handle them. It is an <<include>> of use-case Handle orders and Serve orders.

## Use-case: Finish order

This use-case describes how users view ordered meal. It is an <<include>> of use-case Handle orders.

## Use-case: Serve orders

This use-case describes how waiter serves ordered meal.

## Use-case: Check paid

This use-case describes how users view ordered meal. It is an <<extend>> of use-case Serve orders.

# Logical View



## Component: abc

[This section provides details for the component named “abc”. You need to include class diagrams for this component and explain key classes.

For each component, create a section like this.]

# Deployment

[Leave this section blank for PA3.]

# Implementation View

[Leave this section blank for PA3.]