校园订餐服务系统分析与设计

(The requirement analysis and logical design of ordering service system)

需求概述：

本服务系统的运营者为校园网运营单位（如学校的网路中心）或学校负责餐食及为校园师生日常生活提供服务的管理部门（如后勤部），旨在通过校园网为校园师生提供更好的生活服务，服务形式为将校园餐厅、食堂以及入驻校园的各类实体经营服务者（超市、水吧等等）以及校园周边1公里范围经认证的餐饮经营者纳入服务系统，向校园师生，特别是学生提供各类网上餐饮服务，如线上预订，支付， 预订餐位等等。

该系统的运营的目标在于提供学生更便捷更好的生活保障服务，而非以盈利为目的。该系统与美团，饿了吗等线上服务非排他关系，但存在竞争。

**第一部分，范围定义与问题分析 ( 20 points)**

***问题一***， 识别并指出本系统的用户都包括哪些角色(Identify the users of the system)? 概述本系统需提供的基本功能（Please provide the baseline features for each type of the user）？(10 points)

Answer: order placer, order taker, platform operator, food deliver

Place order / Payment

Take order / Fulfill order / Delivering / accounting

Handling complains / Tracking and auditing / Mornitoring / Platform management

***问题二***，本系统能够持续运营下去关键在于提供学生独一无二的服务，你是否同意这一观点？如果同意，请简述达成这一点的关键问题在于哪些？这些问题的解决思路是什么？如果不同意，请指出你所认为的关键及其解决办法？ **注： 可参考书上问题陈述与解决办法列表。**

（Problem analysis: Please identify the key value of this system and find the root cause problems and their solutions） (10 points)

Answer:

1, Key points: faster, cheaper, more convinient

2, a statement of problems decomposition and their corresponding possible solutions

**第二部分，需求分析与需求定义 ( 25 points)**

***问题三***，请提供餐饮商家的用户故事/用户功能？（Please provide the user stories of a user such as a resturant?）( 5 points)

Answer:

1, As a service provider (e.g, resturant, drink bar, canteen), one can take order from student, and then fullfill the order.

2, As a service provider, get and do order accounting.

3,complains

4,handing over to deliverer and tracking the order

***问题四***， 提供商家处理学生订单的用例图及用例描述？ （Provide use case and use narrative of a resturant handles an order from a student?）） ( 10 points)

Answer:

1, Use cases with actors

2, use case narratives

***问题五***， 商家浏览学生订单的功能规格说明？ (Requirement specification of browsing real-time orders and the orders status) ( 5 points)

Answer:

This requirement specification description, can either be a text based description or a use case diagram + narratives.

Description need cover all essential steps of the order function.

**第三部分， 建模与设计 (25 points)**

***问题七***，请用UML类图或ERD图描述本系统的主要业务实体以及其关联关系？（Please use UML class diagram or ERD to model the domain entities and their relations ?）( 10 points)

Answer:

Essential entities: consumer, provider, deliverer, order, product, payment

Entity relations

***问题八***，请用时序图或交互图描述系统处理订餐订单的过程？（Modeling the system process of handling order with sequence diagram or communication diagram?） ( 10 points)

***问题九***， 订单的状态图? ( Modeling state transition of order with state diagram?) ( 5 points)