iPad Restaurant Application

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Introduction

- A restaurant POS application
- A online servicing for restaurants
- Provide Front End, Back End and Customer Features

Problems :

- Need clarity of the items the user wants
- The efficiency of the application
- Different risks will be caused by lack of experiment

Objectives

- The restaurant POS application can be used it at the front of the restaurant
- Help to take orders, add modifiers, split bills, accept payments, manage tables, track tips and more
- Enhance our customer’s business
- Offer access to the system's back-of-house features

Measures of Success

- **Database supports** - Store the data about the restaurant and using the cloud server to update the information
- **User-Friendly** - Easy to understand and operate the application and learn to use within 30 seconds
- **Maintenance** - Synchronize the menu. Such as the pictures, prices, recommendation and other attributes of the dishes. Software and Hardware update
- **Customer-made Feature** - Customize the user interface according to their restaurant-style, such as restaurant logo and color
- **System Supports** - Software: kiosk system, Hardware: iPad, kitchen display, server

Risks

1. **Design Risk** - Some of the design or content may fail to meet requirements or may be rejected by stakeholders. In that case, we need to reach a consensus with our customers before implementing the application.
2. **Technology risk** - Such as the connection outages that disrupt the service. To avoid this problem we have to make a backup plan which is about our contingency measures.
3. **Lack of Experience** - Some employees may lack experience implementing an ios application, and in that case, we need to understand the employee's strengths to allocate the work.
4. **Security Risk** - The database design may introduce information security vulnerabilities. We should choose the best method to implement the database.

Activity Diagram

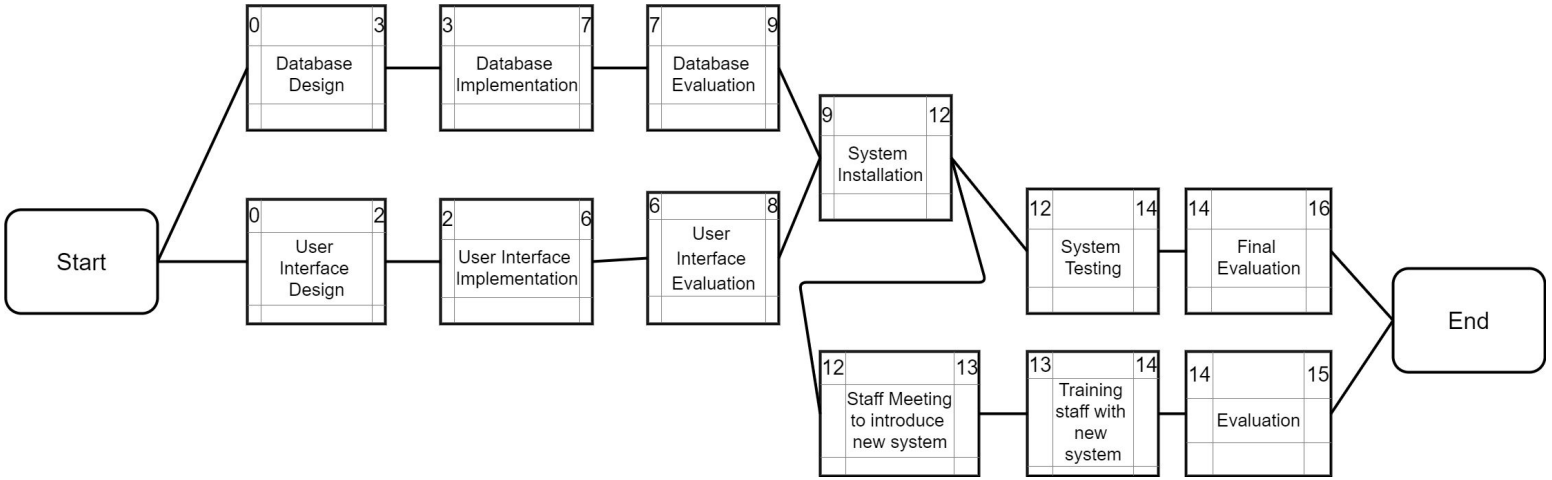

Figure 1: The Activity in Week

Infrastructure

- iPad for customer use
- Management system for staff
- Cloud server to store the restaurant’ database
- POS system on iPad

Resources Assigned

Task Mode	Task Name	Durati	Start	Finish	P	Resource Names	Risk Mitigation
	Software Development	**126 days**	**Sun 12/1/19**	**Mon 5/25/20**		**Hoang,Ming, Armando,Team**	
	Design	**21 days**	**Mon 12/2/19**	**Tue 12/31/19**		**Armando,Team[30%]**	**Gain Feedback & Use Prototyping**
	Database Design	21 days	Mon 12/2/19	Tue 12/31/19		Armando,Team[15%]	
	UI Design	14 days	Mon 12/2/19	Thu 12/19/19		Armando,Team[15%]	
	Implementation	**35 days**	**Tue 12/31/19**	**Mon 2/17/20**	**2**	**Ming,Team[45%]**	**Implement Backup for Outages**
	Database Implementation	28 days	Wed 1/1/20	Fri 2/7/20	3	Ming,Team[23%]	
	UI Implementation	28 days	Fri 12/20/19	Wed 1/29/20	4	Ming,Team[22%]	
	Evaluation	**21 days**	**Tue 2/18/20**	**Tue 3/17/20**	**5**	**Hoang,Team[60%]**	
	Database Evaluation	14 days	Mon 2/10/20	Thu 2/27/20	6	Hoang,Team[30%]	
	UI Evaluation	14 days	Thu 1/30/20	Tue 2/18/20	7	Hoang,Team[30%]	
	System Installation	21 days	Wed 3/18/20	Wed 4/15/20	8	Hoang,Team[45%]	
	System Testing	14 days	Thu 4/16/20	Tue 5/5/20	11	Hoang,Team[45%]	
	Staff Meeting (To Show New System)	7 days	Thu 4/16/20	Fri 4/24/20	11	Armando,Ming,Team, Hoang	
	Training Staff(With New System)	7 days	Mon 4/27/20	Tue 5/5/20	13	Armando,Team	
	Evaluation	7 days	Wed 5/6/20	Thu 5/14/20	14	Hoang,Team	

Figure 2: It shows the resources and the durations of each task

Gantt Chart

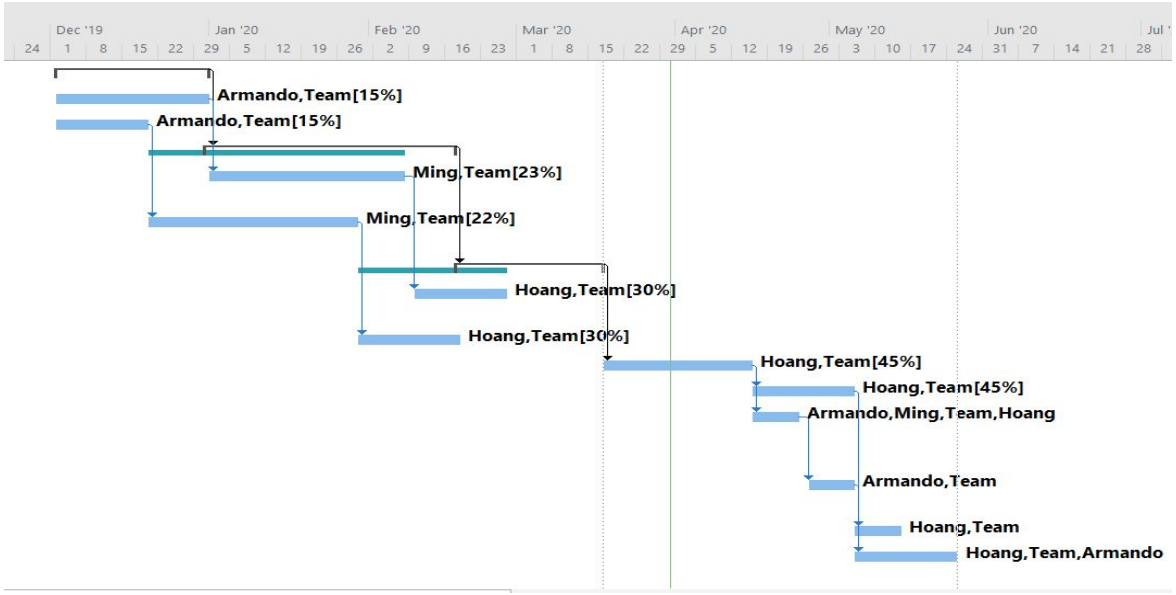

Figure 3: It shows the period of the project, estimately take around 4 months to complete