

# EZ DINE

## Tablet Ordering Application for Restaurants

Tafia Alam	100584647
Meghana Govind	100620126
Sheila Kuria	100618783

# Introduction

---

Conventional menu systems in restaurants are old-fashioned and time-consuming. Oftentimes, customers are waiting around for servers to serve them, menu items are only listed and not pictured, and it's tough to modify menu items. In order to increase efficiency and accuracy of service, many restaurants today are implementing digital menus. We are proposing a tablet ordering application for restaurants, called EZ DINE, to create a dynamic, seamless, and easy experience when ordering food.



# Objective

---

The tablet ordering application will provide customers a dynamic menu where menu items are not only listed with name and price, but also includes information such as ingredients and nutritional info, pictures, and average customer rating. The ordering application allows customers to easily create and modify their order. Once an order is placed, the application sends the order to the kitchen to be prepared right away. The kitchen staff can modify the stock, so that the application can update the availability of items in real time. The ordering application also prompts users for their feedback and to sign up for the restaurant's loyalty program in order to provide important data for the restaurant.

# Measuring our Success

---

<i>Objective</i>	<i>Measure</i>
Revenue: Increase profits	Sales from increased number of orders
Operational: Improve ease of usability and accessibility	Reduced customer inquiries Increased customer satisfaction
Productivity: Increase productivity of staff	Increased number of items served per hour
Customer Satisfaction: Improved customer satisfaction	Increase number of satisfied customer reviews and overall restaurant appraisal
Growth: Increase in community reach	Increase in number of sign-ups for customer newsletter and rewards program

# Risks

---

<i>Task</i>	<i>Description</i>	<i>Countermeasure</i>
Late changes to requirements	New ideas might come in late during the development of the project	Welcoming new ideas should constantly be reviewed thus to avoid delay.
Developer limitations	Staff may not be as productive as expected due to lack of experience which can slow down the project	Hire knowledgeable and experienced developers
Impractical estimate	Overestimating how much time or resources a certain task will take to implement	Finish project a few weeks before deadline so that there is legroom for errors
Security issues	Access to customers private info	Ensure a well encrypted system

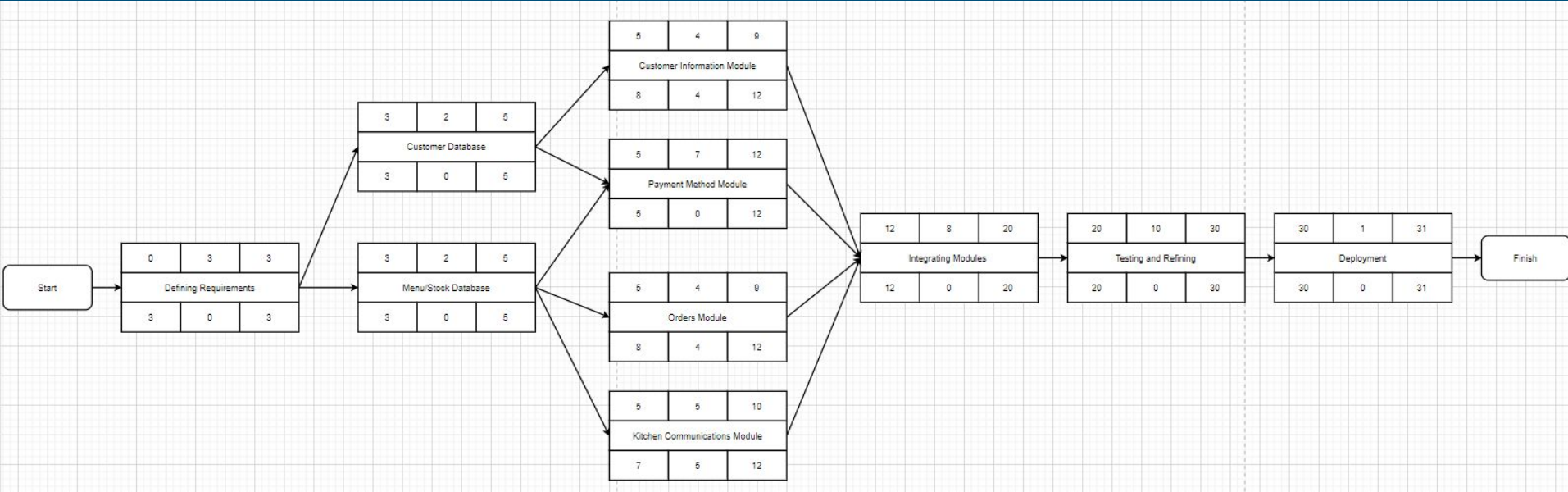
# Infrastructure

---



EZ DINE will be built for tablets, thus a tablet for every table at a restaurant will be needed in order for customers to use the application. As well, tablets will be needed in the kitchen and delivery area where orders will be received and processed. The application will be built using Java to be compatible to run on Android. There is a greater variety of devices that run Android and these devices are comparatively cheaper than other. We will be using Amazon Relational Database Services (ARDS) to manage the databases.

# Activity Diagram



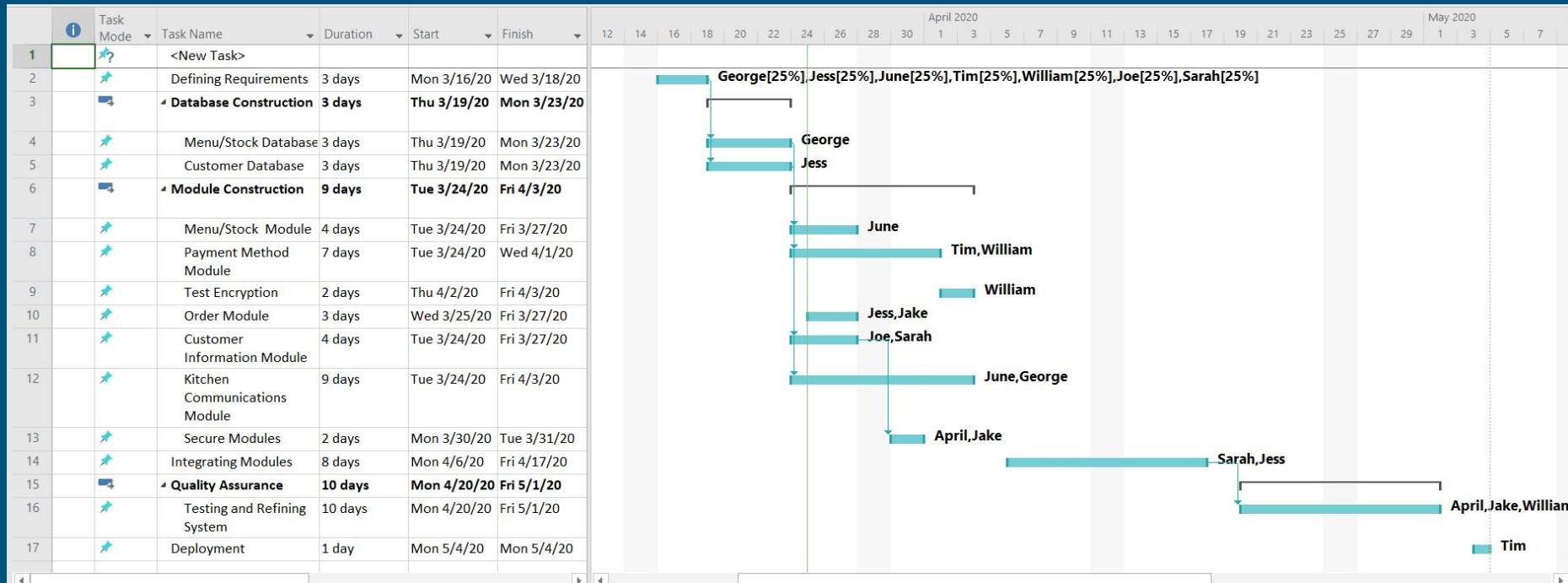
# Resources Allocation

---

<i>Team</i>	<i>Task</i>	<i>People</i>
Requirements Gathering	Defining Requirements	<b>Tim (Project Manager)</b> , George, Jess, June
Software Architecture Team	Menu/Stock Database, Customer Database	George, Jess
Development Team	Payment Module, Customer Info Module, Order Module, Kitchen Communication Module, Integrating Modules	June, Tim, William, Joe, Sarah, George
Quality Analysis Team	Testing and Refining System, Deployment	Jake, April, Tim



# Gantt Chart



# Credits

---

Wednesday March 25, 2020

SOFE 3490: Software Project Management Lab 5

Team Members:

Tasfia Alam	100584647
Meghana Govind	100620126
Sheila Kuria	100618783