VIETNAM NATIONAL UNIVERSITY OF HOCHIMINH CITY
THE INTERNATIONAL UNIVERSITY
SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

SOFTWARE ENGINEERING
IT076IU

PROPOSAL

Topic: Food Delivery Application

By Group 01 – Member List

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Instructor: Assoc. Prof. Nguyen Thi Thuy Loan

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ABSTRACT

This software engineering course project involves developing a food delivery application with several features. These features include account creation (sign up, sign in, and sign out) for restaurant owners to list out their food items along with the price and for users to view the restaurants nearby and order food items from selected restaurants. The project emphasizes creating a good database that adheres to database normalization (1NF, 2NF, 3NF, and BCNF). The database design process logically defined data entities, relationships, attributes, and constraints. The database contained data uploaded by restaurant owners and users. This ensures that the information stored in the database is credible and dependable. Meanwhile, the software user interface is designed to be user-friendly, enabling easy access to various features. The search function allowed users to find information about nearby restaurants. The order system provides a straightforward way for users to order food from selected restaurants.

CHAPTER 1

INTRODUCTION

1.1.   Background

     The advanced technology arising significantly altered human habits and behavior by providing many accurate and optimized accessibility. Delivering food plays an important role in the playground and always is a competitive environment between big enterprises over a decade. When GrabFood officially launched in Vietnam in 2019, the online food delivery market was pushed to the point of explosion by the high smartphone usage rate. This trend guaranteed a solid foundation for the highly competitive market, attracting both local and global enterprises like Now, Shopee, and Baemin. The below graph shows the significant aspects of the share in the Vietnamese market which is led by Grabfood in 2022.
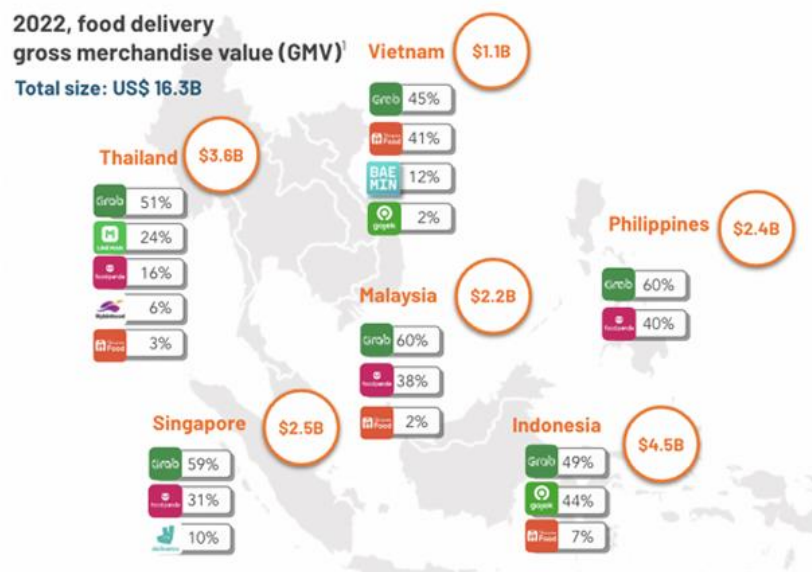

Figure 1: Food delivery Gross Merchandise Value in 2022.

     Moreover, when we look at users' references, they point out that the potential development of Vietnamese local food could play a vital role to change the market share when the need of gathering all the same concepts and legitimacy of Vietnamese local restaurants are needed.

Figure 2: Vietnam Online Food Delivery Market in 2023.

1.2. Problem Statement

Due to shifting consumer preferences in urban areas, driven by income growth, urbanization, and health concerns, there is a need to innovate and cater to users seeking local Vietnamese food. Our application offers a user-friendly interface and affordable delivery fees, featuring a variety of local Vietnamese restaurants and food stores.

1.3. Scope and Objectives

a. Scope: Our application aims to simulate and develop from the origin of existing products; therefore, on-hands experience and practical coding helps us conceptualize accurately the innovative idea to implement real-world solutions.

b. Objectives:

- Gain more experience from coding and analysis of the application by using needed tools and methods.
- Develop an algorithm that shortens the routes and reduces delivery time.
- Optimize user interface with a handful of research about human behaviors.

1.4. Customer Requirements

To maintain the best experience for user, application maintain and develop a intuitive user interface with clear instruction to each function or button. The algorithm plays a crucial role in reducing delivery time and shipping fee, which are key factors in attracting more users.

1.5. Structure of report

The report covered around 6 chapters to provide a deep understanding about the project. Chapter 2 provided the detailed plan with scheduled timeline and to-do-list. Chapter 3 discussed the methodology that had been applied during the process. Chapter 4 presented the implementing coding and final results. Meanwhile, chapter 5 would conclude the process at the end and receive evaluation for further discussion.

CHAPTER 2

PROJECT TIMELINE AND IN-CHARGE TABLE

2.1. Project Timeline

Table 2.1: Project timeline

Date	Subject	Description	Note
18/9	First meeting	Discuss about the proposal	
		Firmly divide the work for each person to work on the proposal	
22/9	Deadline for Proposal	Finish acknowledgments	
		Finish table of content	
		Finish writing abstract	
		Finish writing chapter 1	
		Finish writing chapter 2	
26/9	Second meeting	Checking and giving comment for the proposal	
		discuss the plan for Topic: Food Delivery Application	
		Divide work for Duc and Phat doing database, Huy design the UI	
29/9	Proposal Submission	Finish the proposal and submit	
30/9	Third meeting	Discuss about the database and UI	
22/9 - 21/10	Phase 2	Develop Database and firmly finish UI	
28/10 - 9/11	Midterm	Putting the project on hold while you get ready for the midterm	

2.2. In-Charge Table

Table 2.2: Member information and responsibility

Name	ID	Assign	Note
Vũ Lê Minh Đức	ITITIU22032	Group Leader	
Nguyễn Hà Minh Huy	ITITIU22074	Member	
Châu Thành Phát	ITITIU21135	Member	

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