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Food Ordering Application

(Mini Project Synopsis)

Course: Btech

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Food Ordering Application

Abstract

Online food ordering is a norm these days. There are a lot of applications like Swiggy, Zomato, UberEats, etc which provide fabulous services throughout the nation. The purpose of the online food ordering system is to allow customers to shop virtually using the internet. Computerization of online restaurants will increase the ease, efficiency, and reduce the chances of manual errors. With the popularity of easy access to the internet and the World Wide Web (www) through PCs and mobiles, the internet is increasingly used by consumers & vendors as a channel for shopping, payment & other operations.

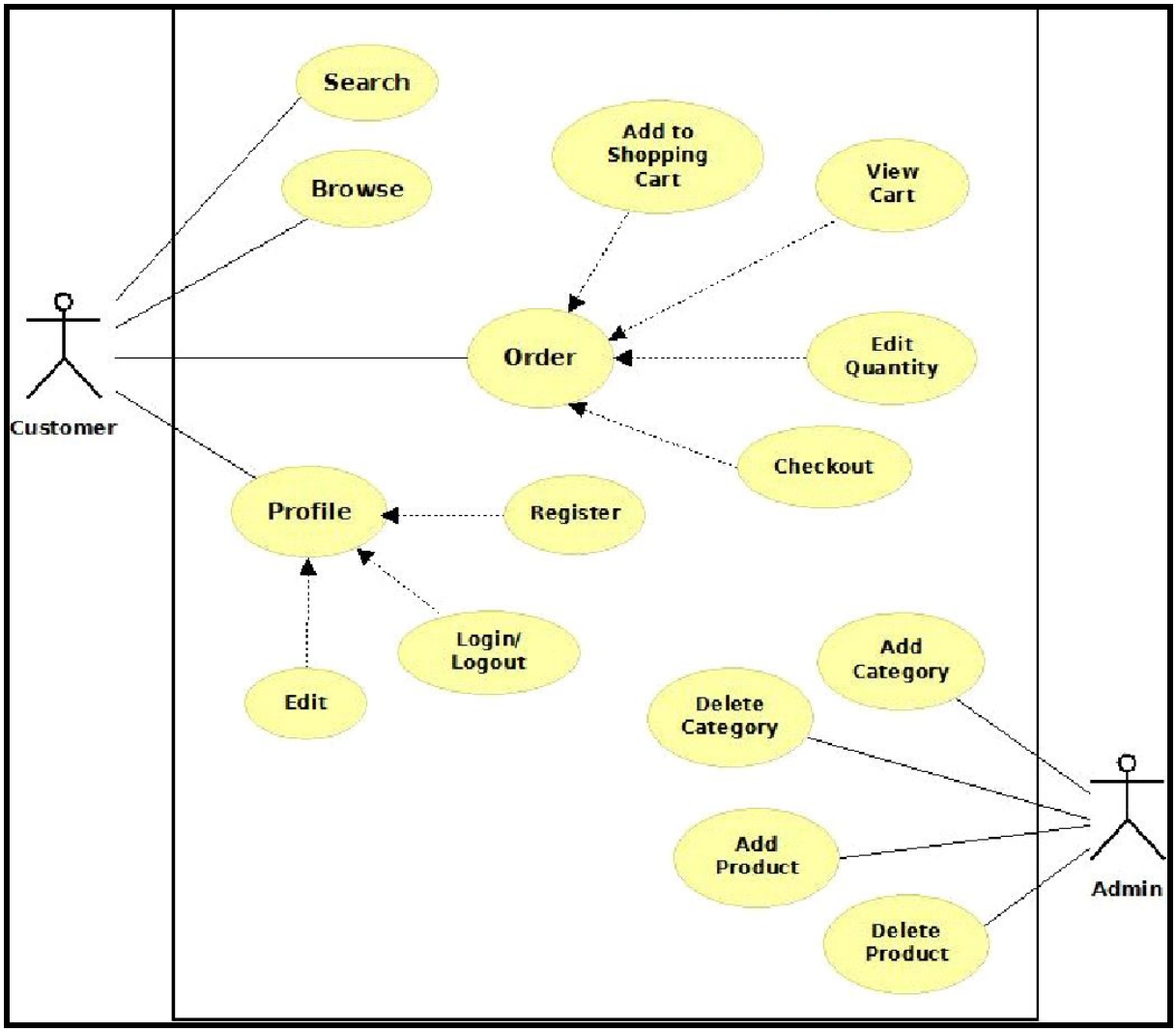
Objective & Scope

The main objective of the proposed system is used to provide an online food ordering solution to consumers and vendors. It will automate some of the basic operations of an online restaurant. The scope would be to provide basic functionalities using a web application so that those manual processes can be automated. It will include administration access to vendors & admins and user-specific access to customers.

About Solution

The system will ease the ordering operations for the customer from various restaurants online. It will provide vendor or administration functionality to manage categories and products. Consumers will be able to browse and search for food items under different categories. Food items selected for purchase would be added into the virtual shopping cart which can be managed separately by the customer. These would be main functionalities apart from some usual operations such as login, logout, manage profile, etc.

Possible use cases are mentioned below in the diagram which will illustrate the scope of the solution which we intend to develop.



Project Category

This project is an android based application developed on PHP & Flutter technology frameworks using the following tools:

- MYSQL
- FLutter - Hybrid app development
- OOPS (Object Oriented Programming System)
- Laravel (PHP Framework)
- VScode (Editor)
- Google Cloud Console

- Google Firebase Console
- One Signal Push Notification System

Web-based applications, as opposed to client/server, are primarily server-based; almost all the code for the application resides on the server. There is usually no client component and users access the application through a web browser. Web-based applications have evolved greatly in the last few years from simple websites to full-fledged enterprise business systems and business portals integrating with databases, mail systems, and a host of third party software.

Web-based applications enjoy a number of advantages over the more traditional client/server technology:

- Easier and faster to develop
- Easier to deploy since all the code resides on the server machine. No individual client machine installations are required.
- Easier to support and upgrade since no individual client machine up gradations are required.

Feasibility Study

An essential outcome of the preliminary investigation is the determination that the system requested is feasible. In our case, the System will allow underlying transactions online for customers and administrators for which data will be stored in a database. Records in DB will be used for authentication and all other operations. Further, there are three aspects in the feasibility study portion of the preliminary investigation

- **Economic Feasibility**

  Are there sufficient benefits in creating the system to make the costs acceptable? Or, are the costs of not creating the system so great that it is advisable to undertake the project? These are the important questions to be answered in economic feasibility. The proposed system will not face any economic constraint as it will be developed by students only. And it will help to automate manual processing, which will save time and money. This will provide economic benefits.

- **Operational Feasibility**

  Will the system be used if it is developed and implemented? Will there be resistance from users that will undermine the possible application benefits? When we look from this perspective, we don't see any risk in implementing and making it operational. This project will help everyone, as it is planned to be more reliable, maintainable, affordable, and productive.

- **Technical Feasibility**

  Can the work for the project be done with current equipment, existing software technology, and available personnel? These are the questions that need to be answered to check Technical feasibility. The project will be developed using PHP - framework and back end as MySQL which will store details related to this project. There are basic requirements for hardware to run this application. This application will be web application so this application can be accessed by using any device like (Personal Computers, Laptop, and with some handheld devices) provided they are on the same network.

Software Requirements:

- **OS**: Windows/Unix/Linux
- **Database**: MySQL (Free-Open source)
- **IDE**: VScode (Free-Open source)
- **Server**: Apache Server (Free-Open source)
- **Language**: PHP-Laravel Framework (Free-Open source)
- **App virtual Environment:** Genymotion virtual environment
- **Front end**: Browser with support for Javascript

Hardware Components:

- Processor – Dual Core

- Hard Disk – 50 GB
- Memory – 1GB RAM
- Mouse – Any Standard
- Keyboard – Any Standard
- Monitor – Any color monitor
- Local Area Network Preferable

Advantages

- **Performance**: Most of the operations and tasks in the underlined system are repetitive and time-consuming. Also, there are chances of manual errors in the system. So an efficient, effective, fast system is desired. Hence this web-based computerized system is undertaken which is very fast and user friendly.
- **Ease & Efficiency**: The basic need of this website is efficiency and simplicity. This website is efficient as it provides easy browsing & data entry for users. Users can easily view all the related operations along with all relevant details.
- **Control**: The complete control of the project is under the hands of an authorized person. Only the customer can access their account. All control is under the administrator, and members have the right just to see their concerned records and transactions.
- **Security**: Security is one of the main concerns for any modern application. So, safety is an important criterion for the purposed system. Proper authentication and authorization are implemented so that only the right person will get the right access.

Limitations of the software

- The system would be a basic project which is intended to provide base for further development.
- Other functionalities are supposed to be developed as per custom need on this framework.
- User needs to have access to the website either on LAN or other networks.

Future Scope

- There will be a lot of scopes to improve this project since currently basic functionality would be provided.
- Some of the modules to improve are admin parts such as personalized recommendations, discount & offer management. For customers, notification, messaging, etc. can be adjusted. These can be developed to make it more effective.