Arab Academy for Science, Technology & Maritime Transport

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Pharmacy Management System

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Presented To

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Chapter1. Problem Statement

1) Problem Definition

It takes a long time to reach the clinic, get a consultation, and then buy the treatment, in addition to the risks of infection if the patient has an infectious disease, in addition to the blind people who cannot look at the pharmacy products and know the advantages and side effects of each of them without talking to the pharmacist directly.

2) Motivation

The pharmacy management system can be used to ensure that data is provided and dealt with effectively and clearly. Significantly reduce the time by searching for drug data and obtaining it as quickly as possible, especially for those with blindness. Significantly reduce the time and effort to obtain medical advice and maintain health from any infection.

3) Issues

	Weight
• Allocate a large period of time to visit the doctor, obtain advice and purchase treatment.	**10**
• Allocating a lot of time and effort in communicating with the blind with the pharmacist to know the characteristics of the products.	**9**
• Difficulty for some workers to read medical prescriptions.	**8**
• Difficulty communicating sometimes between patients and pharmacist.	**7**

4) Objectives

- Obtaining advice through a trained medical electronic model, which helps reduce costs, save time and effort for the patient, and preserve his health from any injury.
- Providing an automatic speaker service for the blind to help them identify the characteristics of the products and order the imports through the voice service.
- Providing a scanning service for doctors' prescriptions
- Customers can search in the application and choose the products they want, which helps to save the time and effort of the pharmacist communicating with the customer.

5) Requirements

- System must be secure.
- Maintaining correct database by providing an option to update the drugs in stock.
- Improving the efficiency of the medical electronic model by training it on modern diseases and the symptoms associated with them continuously.
- To provide optimal drug inventory management by monitoring the drug movement in the pharmacy.
- To ensure that the system is user friendly.

6) Constrains

- The medical electronic model only recognizes the diseases and symptoms that it has been trained on, and in the event that there is any symptom that it has not been trained on, it is dealt with through the pharmacist at that time.
- Development costs must not exceed $50,000.

Chapter2. DFD and ERD

➢ ERD of PMS

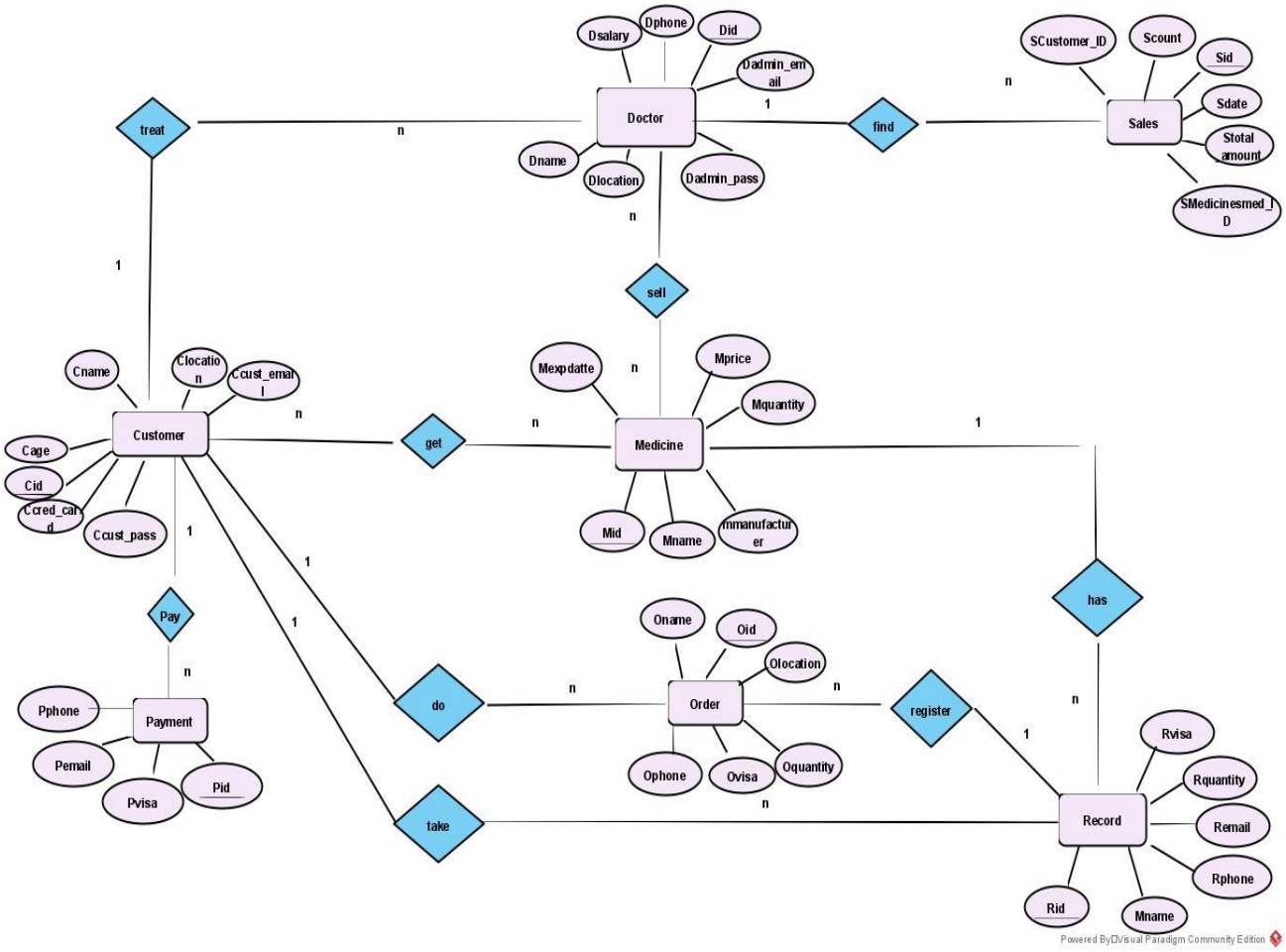

Figure 1.ERD of PMS

➢ DFD of PMS_Level 0

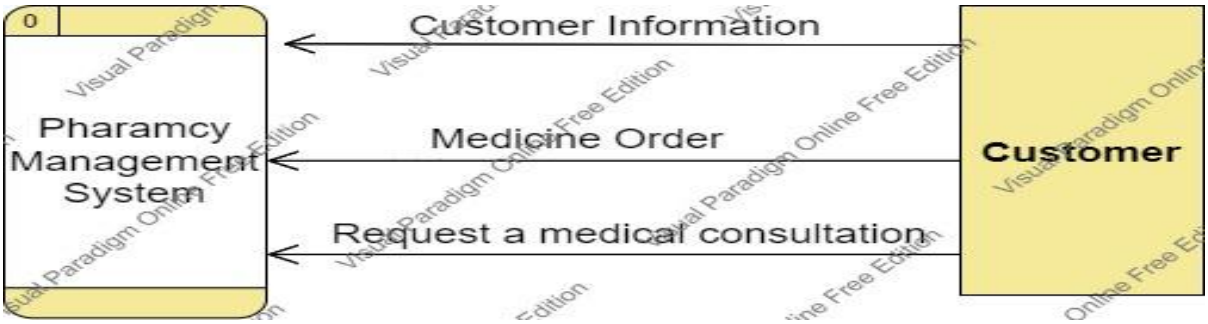

Figure 2.DFD_level0 of PMS

➢ DFD of PMS_ Level 1

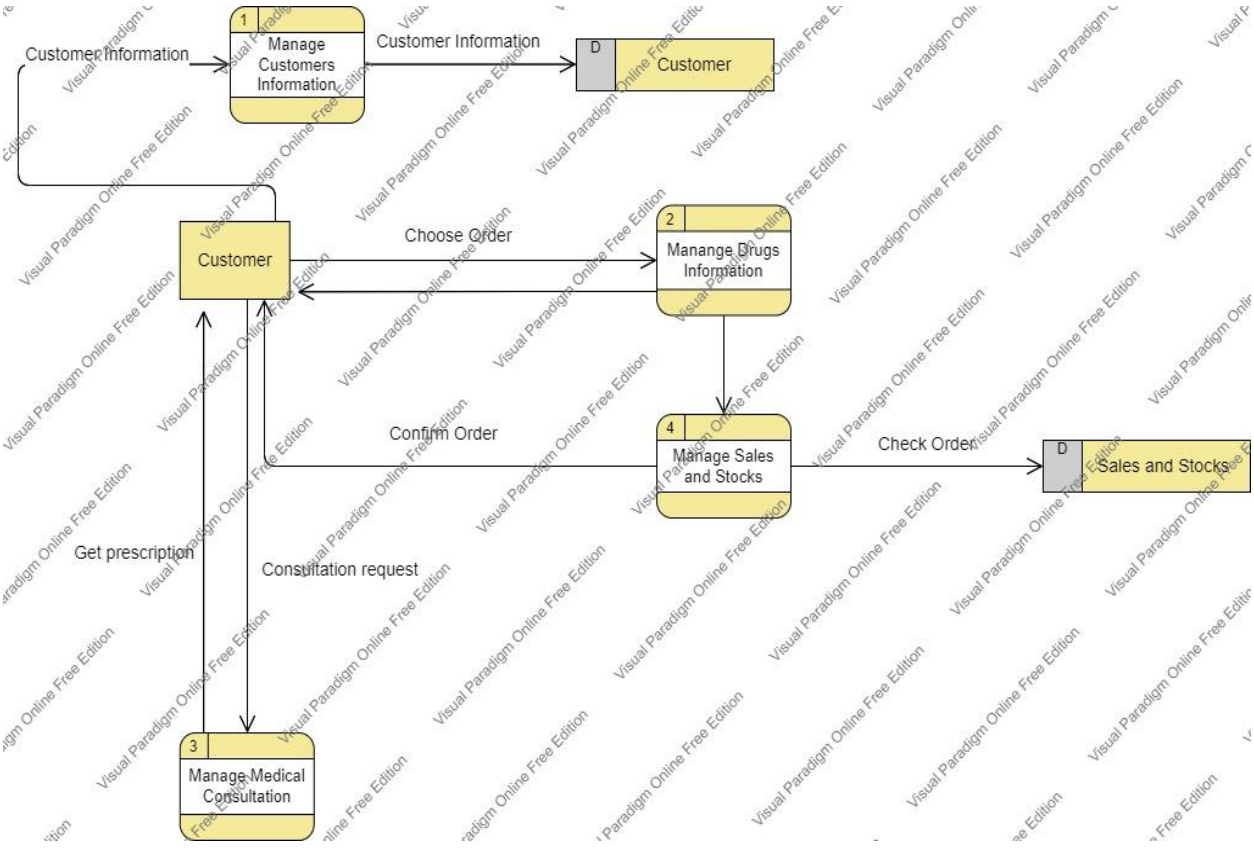

Figure 3.DFD_level1 of PMS

Chapter3. UI and System hierarchy

➢ UI of PMS

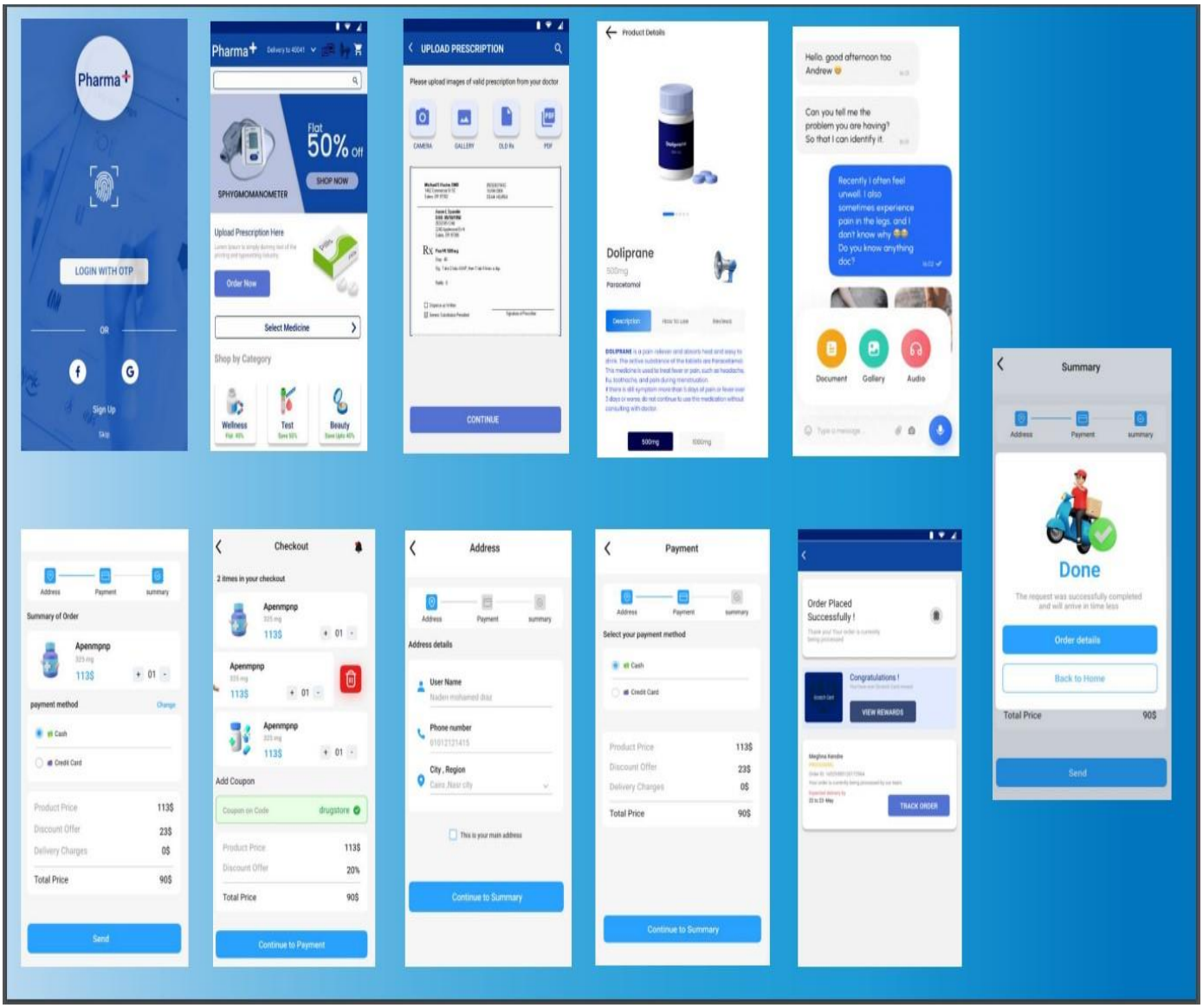

Figure 4.UI of PMS

➢ System hierarchy of PMS

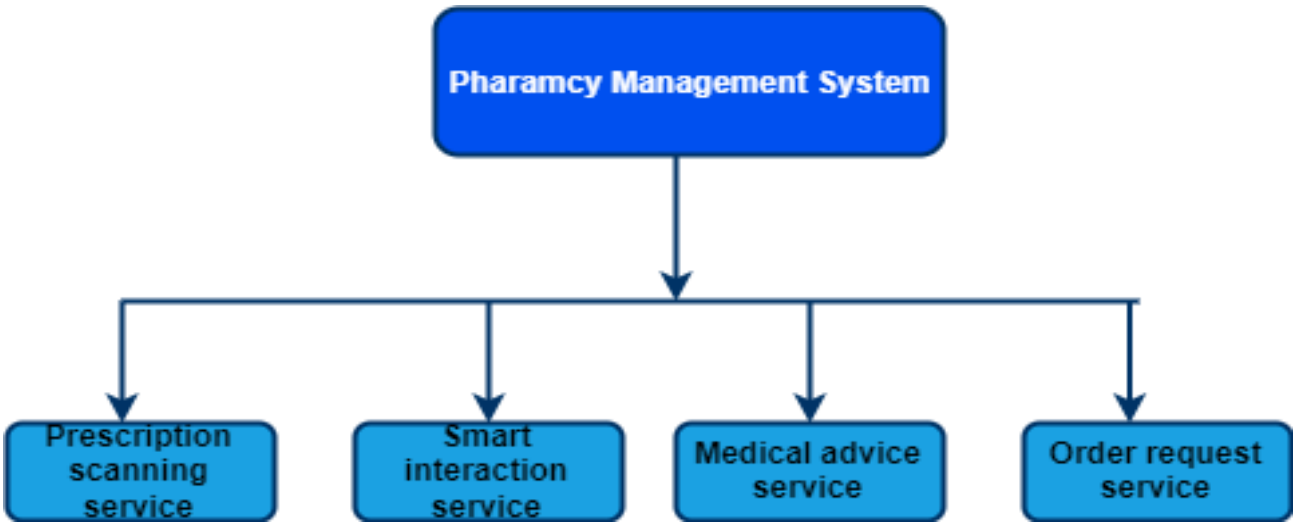

Figure 5.System hierarchy of PMS