EE436L: Database Engineering

Online Medicine Database Management System

Submitted to Electrical Department of University of Engineering and Technology as semester project of Database Lab

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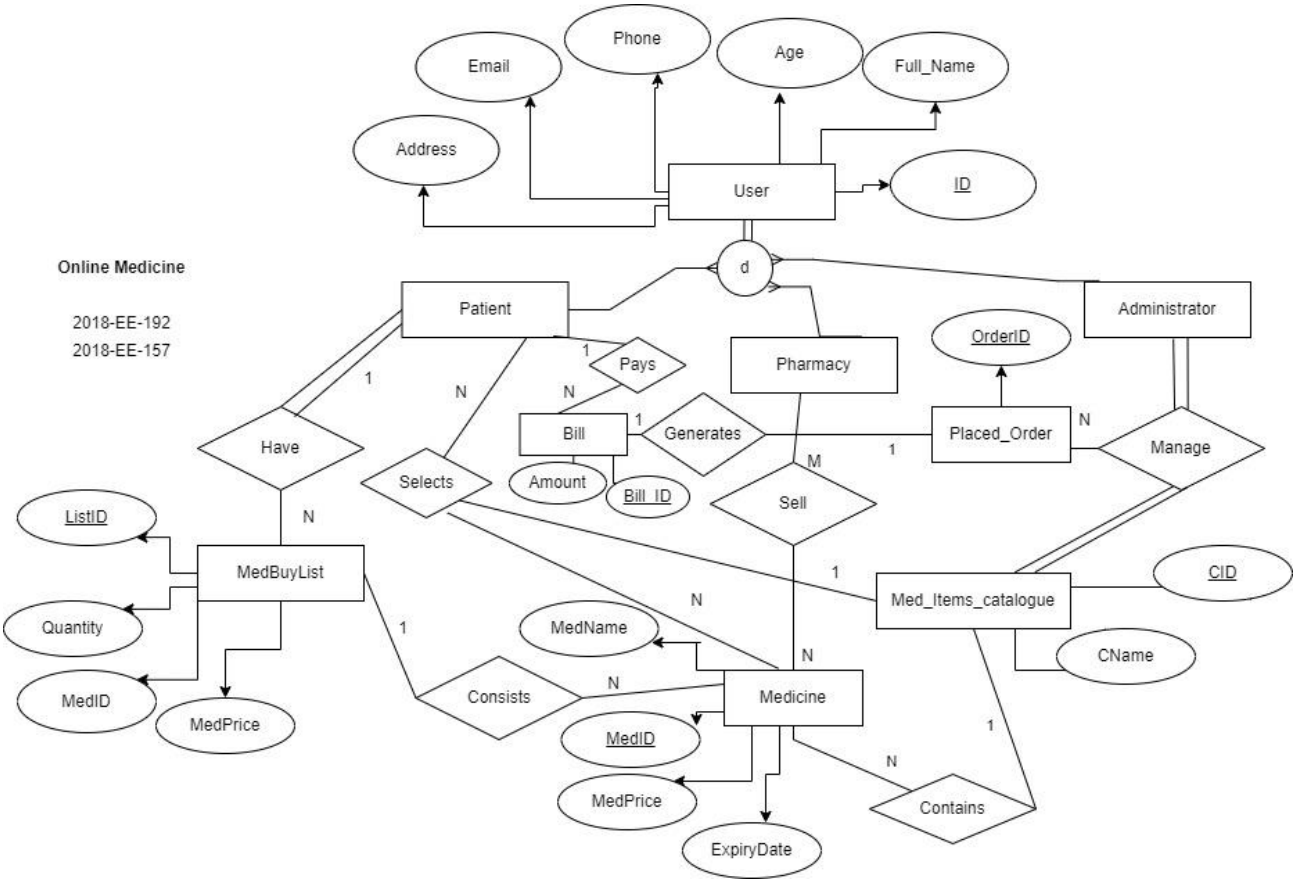
Chapter 1

Abstract

The purpose of this project is to make access to medicine easy by making a Database Management System for Online Shopping of Medicines. This Online Shopping Medicine System is a web-based application intended to attract online customers. The project's institution is based on thoroughly planned design model such as Enhanced Entity Relationship (EER) Diagram, Information Flow Chart Diagram of the design, a Relational Schema Diagram and later, this schema will be implemented on MYSQL software. The website will be designed using PHP, HTML or web development languages such as Django, CSS, Ruby etc. It will be an easily accessible application open to all viewers. The users who will register/ login with the website will get privilege to browse, make purchase and update their profile, and many more. It will have a dynamic, user-friendly search engine that will filter out the products, within seconds, according to the specific details mentioned by the user. Users will be able to view details of the products; can add/delete products from their shopping cart; view their payment history as well as their billing record.

Chapter 2

Enhanced Entity Relationship (EER) Diagram

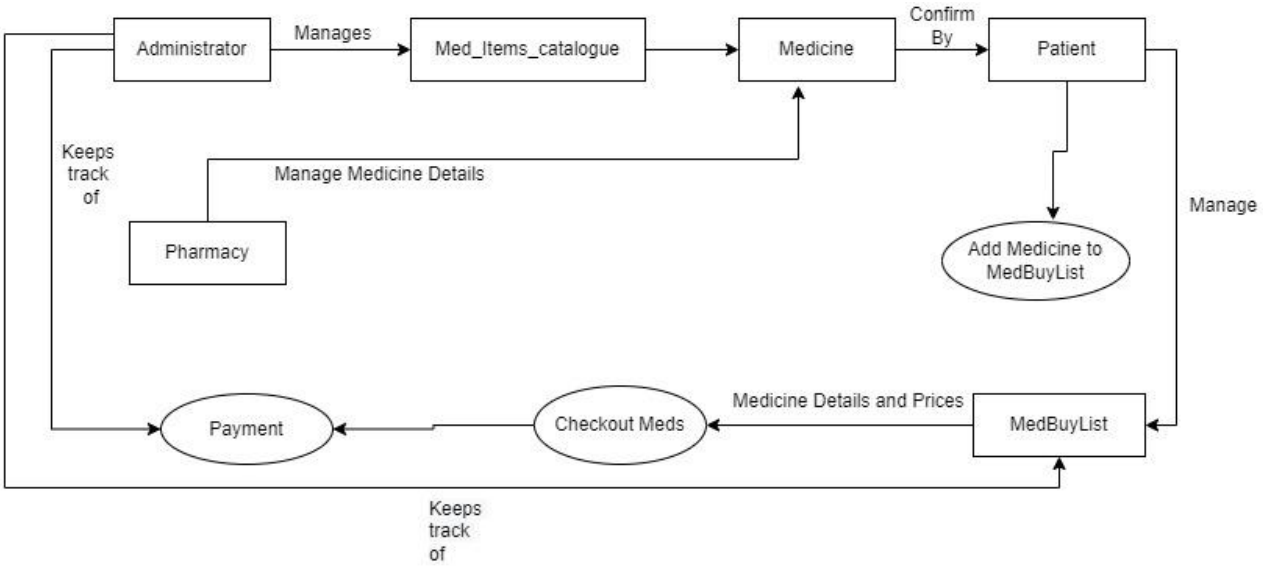


This diagram was drawn on draw.io, The link to the .drawio file is here:

https://drive.google.com/drive/folders/18BOcxoR313JwdyY6Eo8gNDyqh34P-YZU?usp=sharing

Chapter 3

Information Flow Diagram



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Chapter 4

Logical Constraints

i. Users need to enter their details when they sign in for first time.
ii. Patients can see their previous medicine purchases and payments.
iii. Patients can see the full details of each medicine.
iv. Patients are able to filter medicines according to different properties such as price.
v. Patients can add or delete the medicine from their Shopping List anytime.
vi. Pharmacy can add, delete, or update the medicines and its details.
vii. Pharmacy and Patients can update their account profile and other details.
viii. Administrator has access to all the order, payment, shipping, and overall system.
ix. Administrator can view the medicine, order, delivery and payment reports.
x. Patients can view the total price of the medicines they have in buying list.

Chapter 5

Assumptions

i. The display for Administrator, Pharmacy and Patients will be different.
ii. Only Administrator have the authority to change the layout or the framework of the database.
iii. Pharmacy can create their own account and start selling medicines after permitted by Administrator of system.
iv. Patients can give feedback on their purchase of medicines.
v. The account of any user will be stored so that they can use their same details for buying medicines again.
vi. Users will be logged in unless they logout.

Chapter 6

Work Division

Manish Kumar Mahato (2018-EE-192)

- EER Diagram and Assumptions

Huma Saira (2018-EE-157)

- Information Flow Diagram and Logical Constraints