Strathmore UNIVERSITY

SCHOOL OF COMPUTING AND ENGINEERING SCIENCES
BACHELOR OF SCIENCE IN INFORMATICS AND COMPUTER SCIENCE

WEB APPLICATION DEVELOPMENT – Lab Assignment 2

DATE: 24th April 2023

Instructions

- For the web application class, you have been tasked with creating a drug dispensing tool for a pharmacy.
- You are expected to work in groups of two
- You will submit your assignments every week and push your code to GitHub .

Task 1

a. Ensure that both of you have **installed git** on your machines and have a **GitHub Account**

b. Create **a project Repository** on one of your GitHub accounts, clone the repository on your machine. Ensure your partner is able to access the repository and push changes to the repository.

c. You have been provided with a list of project requirements to guide you. You are expected to **add your own requirements**, after discussing with your partner.

d. Once you have your requirements save as a pdf document named **Drug dispensing tool Requirements.pdf**, on your project folder and push it to GitHub. Your partner should be able to get the updated copy of your project.

e. Once you have the requirements, create a **Entity Relationship diagram** of the system. Ensure every requirement is mapped on the Entity Relationship Diagram. Upload your Entity relationship diagram to GitHub

(***Also: Upload your Assignment to Google Classroom***; Save it as `AdmNo_Student_Name&& AdmNo_Student_Name`)

Within the document include links to your GitHub Accounts. Both of you must upload the assignment.

Requirements

i. Patients are identified by SSN, and their names, addresses, and also ages.
ii. Doctors are identified by an SSN, for each doctor, the name, specialty and years of experience must be recorded.
iii. Each pharmaceutical company is identified by name and has a phone number.
iv. For each drug, the trade name and formula must be reordered. Each drug is sold by a given pharmaceutical company, and the trade name identifies a drug uniquely from among the products of that company. If a pharmaceutical company is deleted, you need not keep track of its products any longer.
v. Each pharmacy has a name, address, and phone number.
vi. Every patient has a primary physician. Every doctor has at least one patient.
vii. Each pharmacy sells several drugs and has a price for each. A drug could be sold at several pharmacies, and the price could vary from one pharmacy to another.
viii. Doctors prescribe drugs for patients. A doctor could prescribe one or more drugs for several patients, and a patient could obtain prescriptions from several doctors. Each prescription has a date and a quantity associated with it. You can assume that if a doctor prescribes the same drug for the same patient more than once, only the last such prescription needs to be stored.
ix. Pharmaceutical companies have long-term contracts with pharmacies. A pharmaceutical company can contract with several pharmaceutical companies. For each contract, you have to store a start date, and end date, and the text of the contract.
x. Pharmacies appoint a supervisor for each contract. There must always a supervisor for each contract