10 – Vezeeta

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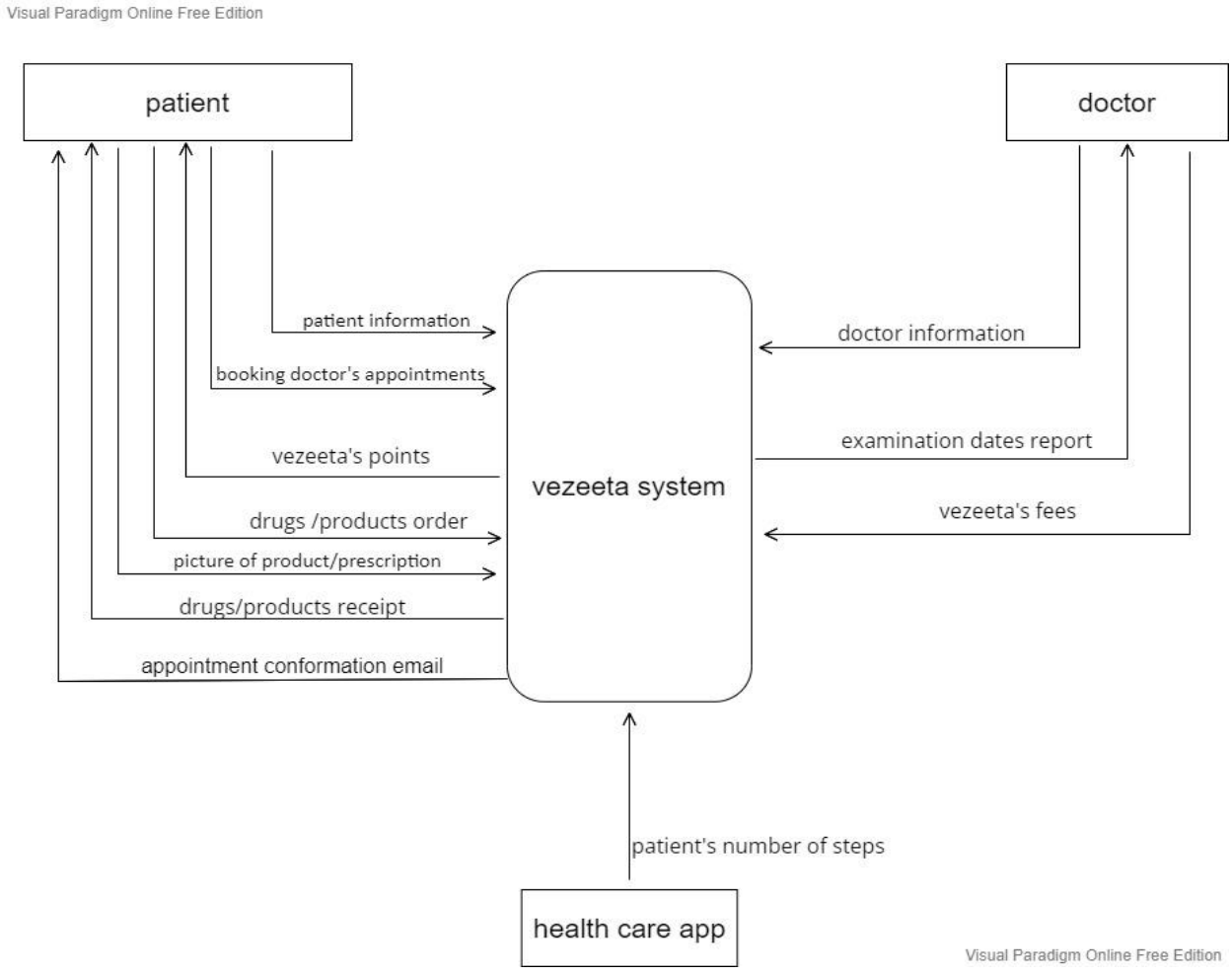
SRS Document Template

1- Introduction

- The Software is for healthcare solution for patients across Middle East and Africa.
- It maintains two levels of users
  - Patient.
  - Doctor.
- providing drugs and many products in the pharmacy.
- Search for a doctor, call a doctor or booking doctor's appointment.
- Using the user insurance card to find doctors, hospitals, clinics that match.
- Encourage user to be healthy by making offers by his steps when walking.

2- Context Diagram



3- User Requirements

- **Patient**
    - Register
    - Login
    - Search for products/drugs
    - Search for a doctor
    - Book an appointment
    - Buy drugs/products from a pharmacy
    - Take a picture of a product/prescription
    - Call doctor
    - Book Home visit
    - Exchange daily steps' points with currency
    - View booked appointments
    - Manage information
    - Add favorite doctors
- **Doctor**
    - Register
    - Login
    - Set available appointments
    - Pay Invoices
    - Manage information

4- Functional Requirements

- **Login**
    - **Description:** User enters his/her email and password then the system checks if this data exists or not
    - **Input:** Email and password
    - **Source:** User
    - **Pre-condition:** User should be registered in the system
    - **Post-condition**: All system's functions will be available to the user
    - **Output:** Displays home page

- **Register**
    - **Description:** User enters his/her whole information (EX: name, email, password, location, …etc.) to be saved and can login to the system later.
    - **Input:** User information
    - **Source:** User
    - **Pre-condition:** User press on register button
    - **Post-condition**: User can login to the system to use its functions
    - **Output:** Displays home page

- **Search for a doctor**
    - **Description**: Used for searching for doctors by entering doctor's name or medical specialty, city, area then the system displays details about the available doctors (EX: fees, address, available appointments).
    - **Input**: medical specialty/doctor name, city, area
    - **Source**: Patient
    - **Pre-condition**: Patient has an account on vezeeta
    - **Post-condition**: system retrieve doctors' data
    - **Output**: Display doctors' data to patient

- **Book an appointment**

- **Description**: after the patient has chosen a specific doctor, he/she can choose preferred appointment and enter his/her information to book an appointment
- **Input**: choose appointment's day and time, patient information
- **Source**: Patient
- **Pre-condition**: retrieve available appointments with doctor and show it
- **Post condition**: system sends to patient confirmation email
- **Output**: display successful message

- **Buy drugs/products from a pharmacy**
  - **Description:** search for medicine that patient needs, then calculate total amount of order
  - **Input:** medicine name or picture, amount, patient information, payment method
  - **Source:** Patient
  - **Pre-condition:** patient should be logged into the system
  - **Post condition:** system sends to him/her confirmation mail
  - **Output:** display confirmation message

- **Search for product/drug**
  - **Description:** allow patient to search for product/drug. There is an option to take a picture of a product/drug/prescription and search by it.
  - **Input:** name of product/drug or picture of a product
  - **Source:** Patient
  - **Pre-condition:** Allow the program to access gallery (while searching by images)
  - **Post condition:** system retrieve product's/drug's details
  - **Output:** display notes about product/drug and it's price

- **Call doctor**
  - **Description:** Book a remote doctor consultation. First, patient choose doctor. Then, he/she choose preferred appointment to do a phone or video follow-up.
  - **Input:** Patient's information, choose appointment's available time.

- **Source:** Patient
- **Pre-condition:** retrieve available appointments with doctor and show it.
- **Post condition:** system sends patient confirmation email.
- **Output:** display successful message

- **Book Home visit**
  - **Description:** First, patient chooses doctor. Then, he/she can book a home medical consultation.
  - **Input:** customer information, choose appointment's available time.
  - **Source:** Patient
  - **Pre-condition:** retrieve available appointments with doctor and show it.
  - **Post condition:** system sends to patient confirmation email.
  - **Output:** display successful message.

- **Exchange daily steps' points with currency**
  - **Description:** calculates steps by physical activity sensor so it gives points (30) to who exceeds the 5000 steps daily
  - **Input:** permission from patient to use the sensor
  - **Source:** sensor
  - **Pre-condition:** allow using the sensor
  - **Post condition:** notification of completion the target
  - **Output:** represents the average steps and collected points through the week

- **View booked appointments**
  - **Description:** View the booked appointments with doctors
  - **Requirements:** Patient has booked any appointment
  - **Source:** readings from memory
  - **Pre-condition:** Patient has an account on Vezeeta
  - **Post condition:** get the appointment data from database
  - **Output:** Display appointments

- **Manage information**

- **Description:** User can manage his/her information, by updating his/her information by entering (ex. Location, language, health insurance if exist)
- **Input:** updated data
- **Source:** Patient/Doctor
- **Pre-condition:** Patient should login or register, system should display profile page
- **Post condition:** system updates database
- **Output:** display successful message

- **Add favorite doctors**
  - **Description:** Save preferred doctors to reach them easily
  - **Input:** Doctor's name
  - **Source:** Patient
  - **Pre-condition:** The doctor's name is valid
  - **Post condition:** Add doctors to favorite lists.
  - **Output:** Display all the favorite doctors of this patient

- **Set available appointments**
  - **Description:** Doctors can set their available appointments to be viewed for patients
  - **Input:** Location, appointment's day and time, fees
  - **Source:** Doctor
  - **Pre-condition:** Doctor has completed his profile data such as specialty, clinic/hospital location, profile image, fees
  - **Post condition:** Patients can book from the available appointments that this doctor has added.
  - **Output:** Display all the available appointments of this doctor

- **Pay Invoices**
  - **Description:** With each successful appointment that is happened between patient and doctor, the system takes a specific percentage from the fees that the doctor has taken. And this money can be paid

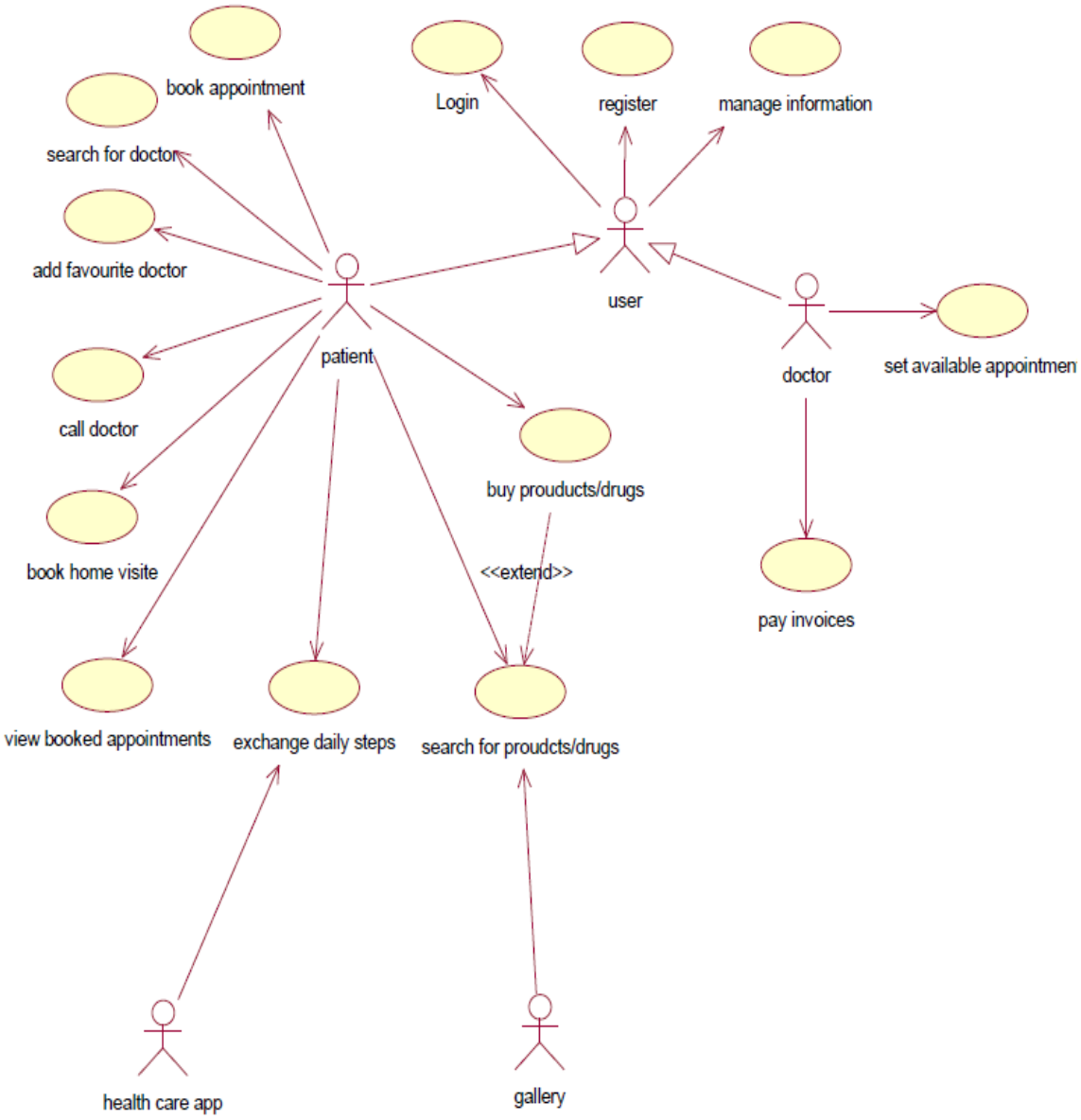
through Vezeeta using credit card, this function takes information about credit card and withdraw the required money.

- **Input:** Total withdrawing amount, card number, full name, expiry date, CVC
- **Source:** Doctor
- **Pre-condition:** Doctor has an account on Vezeeta
- **Post-condition:** Check the paid money from the doctor
- **Output:** Display confirmation message that money has reached to Vezeeta successfully

5- Non-Functional Requirements

- **Reliability**
    - Downtime (failure) of the system shouldn't exceed 5 MS per day.
    - The account update process shall roll back all related updates when any update fails to commit.
- **Response time**
    - Customer booking is automatically confirmed within 2 seconds
    - The screen refresh time shouldn't exceed 0.025 seconds
- **Execution speed**
    - Retrieve data from database in less than 1 MS
- **Storage requirements**
    - Storage of the system should hold at least 50,000 doctors, 50,000 pharmacy, 100,000 Client (Based on client budget)
- **System usability**
    - People with no training and no understanding of English shall be able to use the product.
    - The system shall be useable by program developers after five weeks of training.
- **Size**
    - Application size shouldn't exceed 27 MB
- **Portability**
    - Application should work on android, iOS, web, windows desktop platforms
- **IDE**
    - Using Android studio IDE

Use case Diagram



Sequence diagram of (Book an appointment with a doctor) use case