

Pharmeazy

e-pharmacy management system



TEAM 18:

KARTIK KAUL

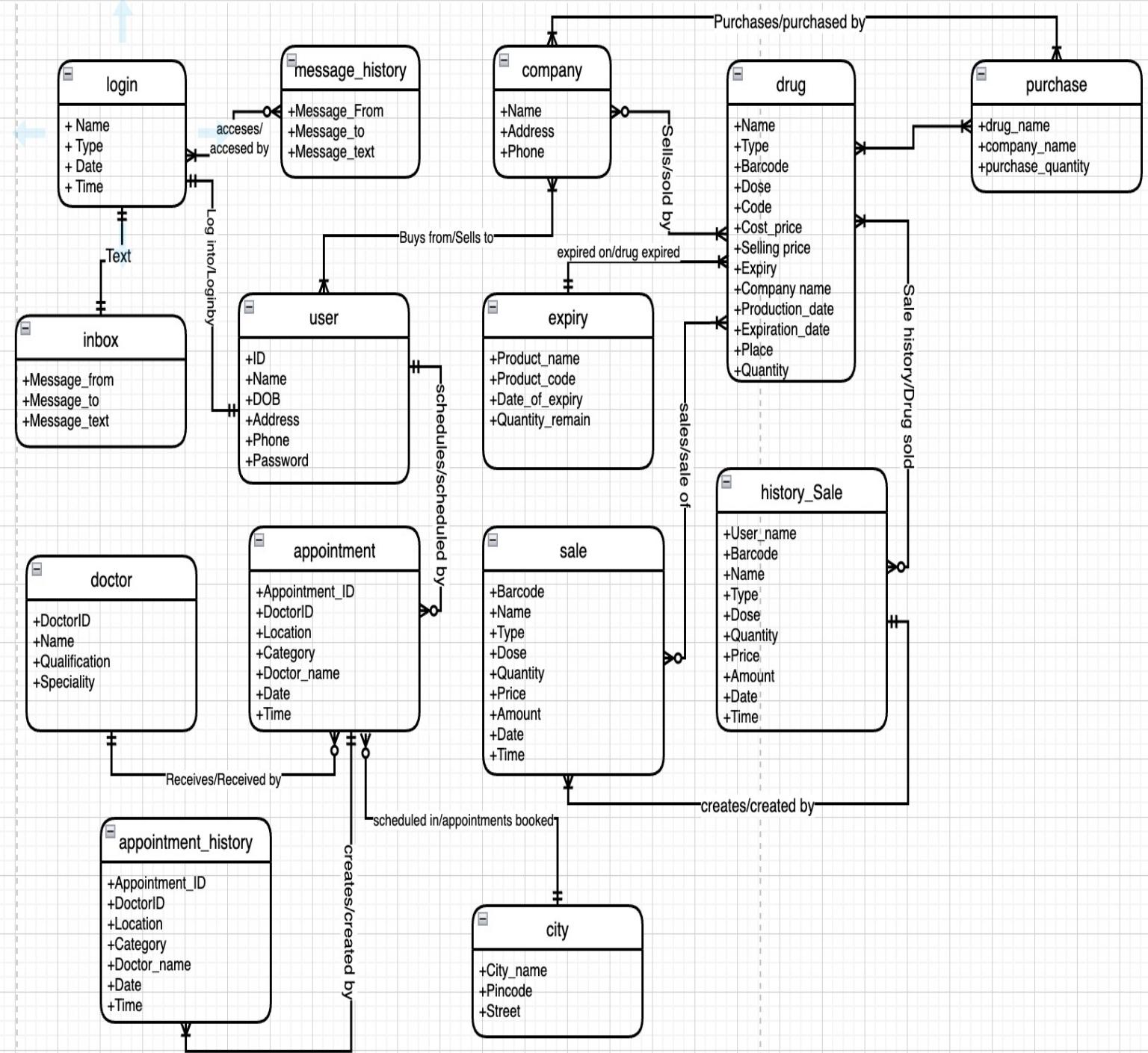
SHUBH MODY

ADITI PALA

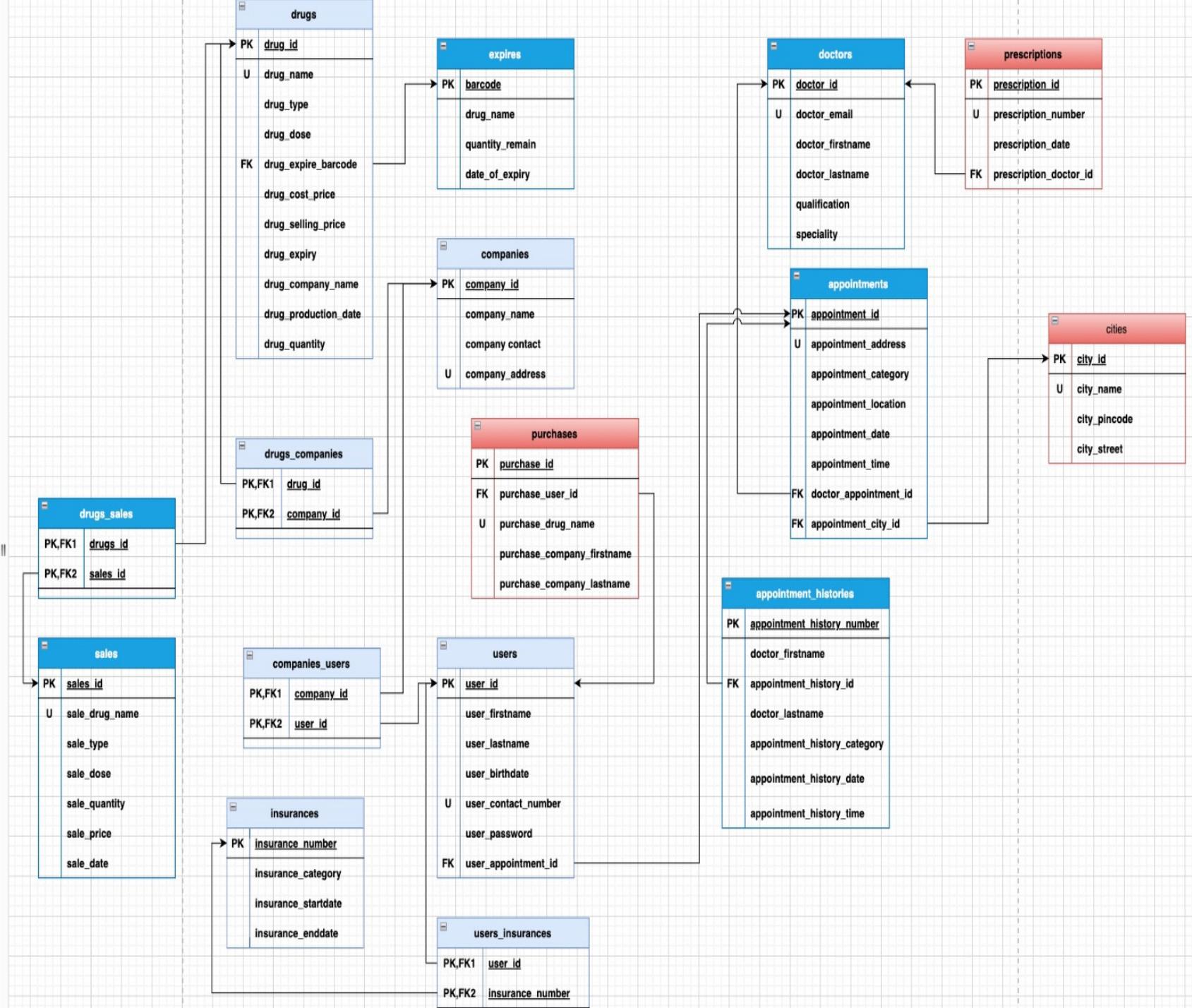
Project Overview

- Pharmeazy is an e-pharmacy data application where we aim to simplify buying, selling, and delivering over-the-counter and prescription-only medicines over the internet. Also, the user can book physical appointments with qualified specialized doctors.
- We created a database consisting of 16 tables comprising users, doctors, sales, drugs, and appointments as some of our preliminary tables.

Conceptual Model Diagram



Logical Model Diagram



	drug_id	RU	Entities and Attributes			
	name	RU	Entity	Attribute	Props	
drug	dose	RU	user	name	RC	first name & last name
	cost_price	R		dateofbirth	R	
	selling_price	R		address	R	
	company_name	R		phone	RU	
	production_date	R		password	R	
expiry	expiry_date	R	appointment	appointment_id	RU	
	quantity	R		location	R	
	drug_name	RU		category	R	
	drug_id	RU		date	R	
insurance	date_of_expiry	R		time	R	
	quantity_remain	R	doctor	doctor_id	RU	
	insurance_id	RU		name	RC	first name & last name
	number	RU		qualification	R	
	category	R		speciality	R	
prescription	start_date	R	company	company_id	RU	
	end_date	R		address	RU	
	id	RU		phone	RU	
purchase	number	RU		name	RC	first name & last name
	date	R	sale	sale_id	RU	
	id	RU		name	RU	
	drug_name	RU		type	R	
appointment_history	company_name	R		dose	R	
	quantity	R		quantity	R	
	id	RU		price	R	
sale_history	category	R		amount	R	
	date	R		date	R	
	time	R		time	R	
	name	RU	city	city_id	RU	
	type	R		name	RU	
	dose	R		pincode	R	
	quantity	R		street	R	
	price	R				
	amount	R				
	date	R				
	time	R				

Data Requirements – Entities and Attributes

Data Requirements - Relationships

Relationships						
Relationship	Entity	Rule		Min	Max	Entity
user-company	user	buys from		1	M	company
	company	sells to		1	M	user
user-appointment	user	schedules		0	M	appointment
	appointment	scheduled by		1	1	user
doctor-appointment	doctor	receives		0	M	appointment
	appointment	received by		1	1	doctor
city-appointment	city	appointment booked		0	M	appointment
	appointment	scheduled in		1	1	city
drug-sale	drug	sales		0	M	sale
	sale	sales of		1	M	drug
drug-expiry	drug	expired on		1	1	expiry
	expiry	drug expired		1	M	drug
drug-company	drug	sold by		0	M	company
	company	sells		1	M	drug
user-insurance	user	registers for		1	M	insurance
	insurance	registered by		1	M	user
doctor-prescription	doctor	prescribes		1	M	prescription
	prescription	prescribed by		1	1	doctor
sale-sale_history	sale	creates		1	1	sale_history
	sale_history	created by		1	1	sale

Business Logic

To order medicines:

- 1) One person can buy multiple medicines.
- 2) Medicines can be bought by multiple users.

To book a consultation appointment:

- 1) One person can book 1 appointment at a time.
- 2) One Appointment can be booked by 1 person only

To view current appointments and check appointment history:

- 1) 1 person can have 0 or more appointments.
- 2) 1 appointment can be for 1 user only.

Database System Infrastructure

We used the following tools to create and implement this project:

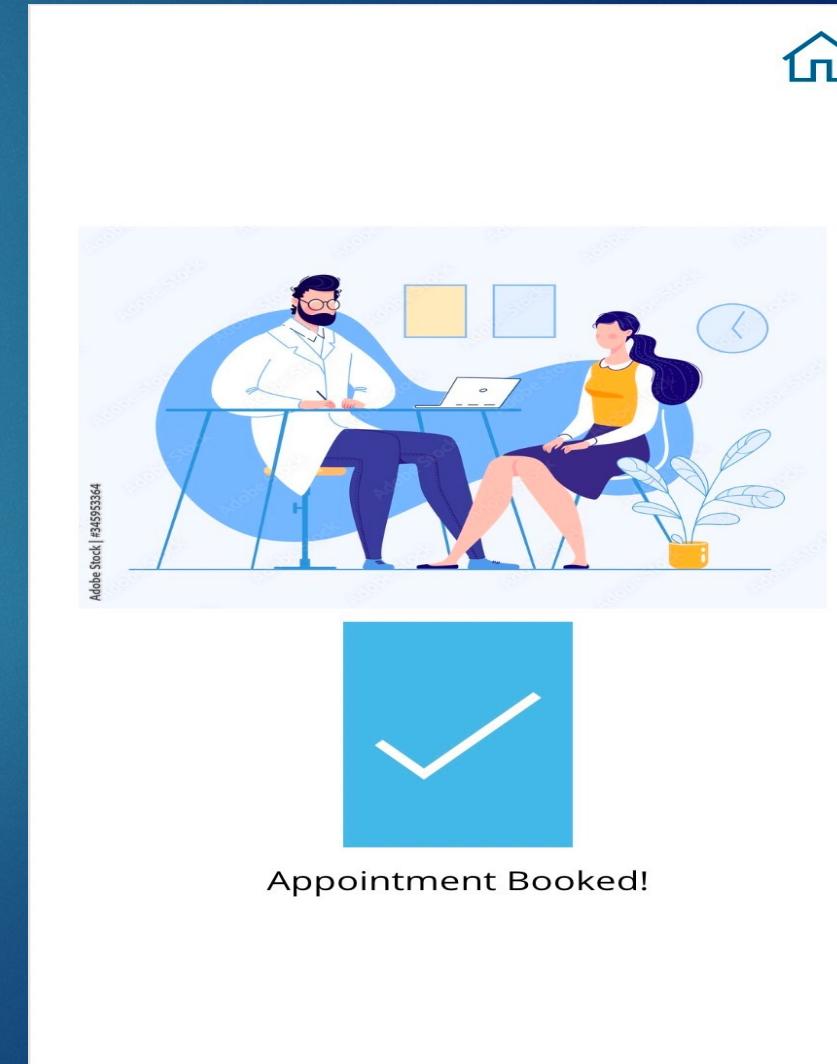
- 1) Draw.io : We created the entity-relationship diagram for the conceptual model and the logical data model diagram using the draw.io tool. We used this tool to create the entities and for defining their attributes and keys for our implementation.
- 2) SQL Server: We utilized the SQL server for storing all the tables and their corresponding data. We created tables in the database using SQL queries.
- 3) Power Apps: Used for building the front end of the application.
- 5) Azure Data Studio : We used the ADS tool for creating the database and for querying the data to provide insights and analysis for the problem statements.

USER STORIES

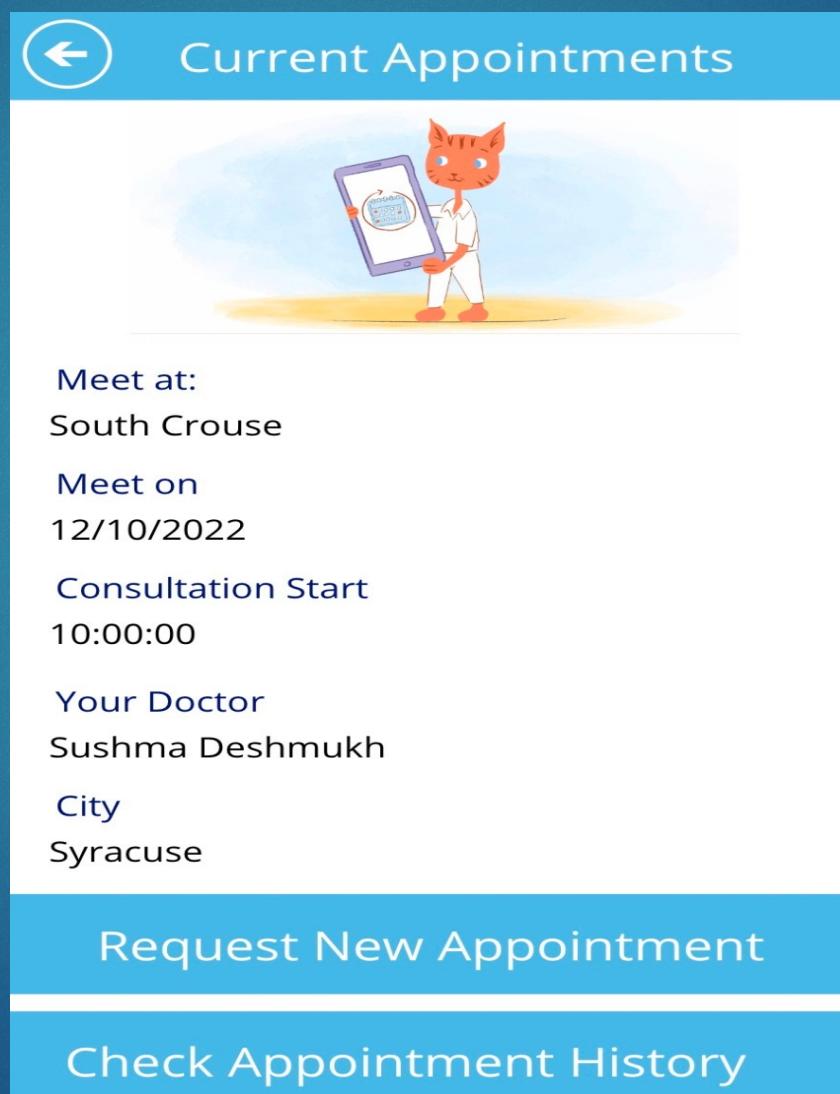
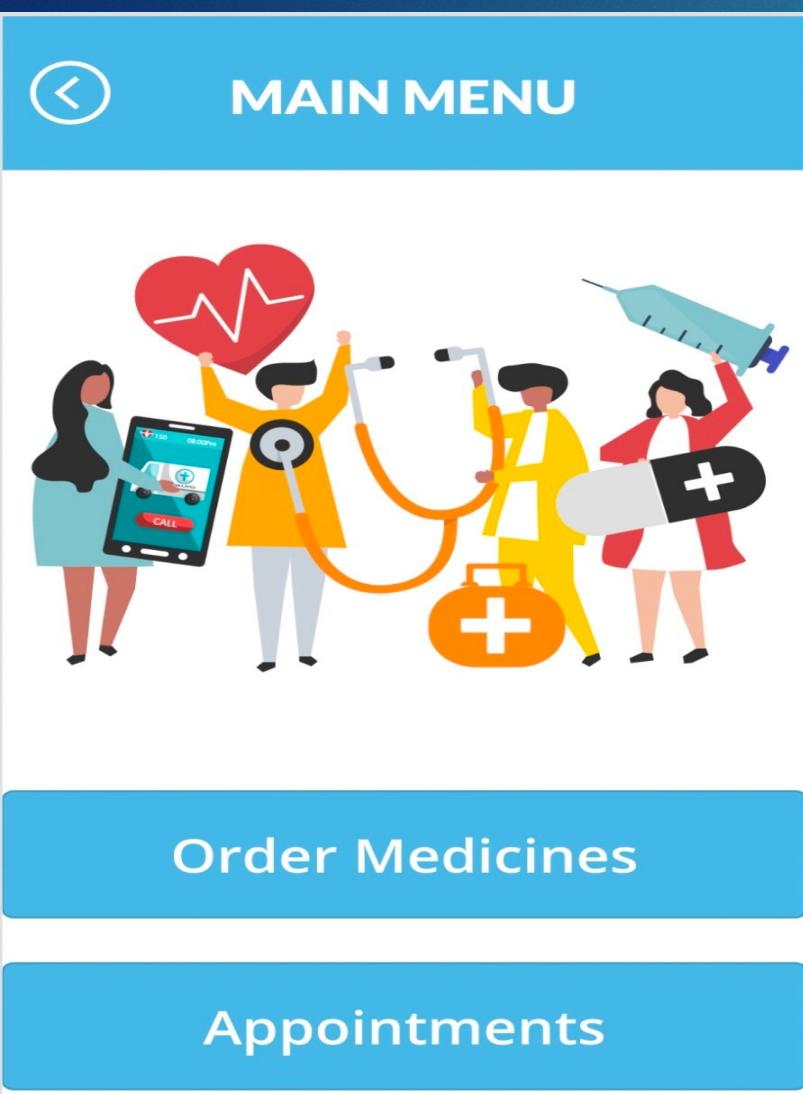
- To book a consultation appointment:



Appointments		
Note: Only one appointment can be booked at a time!		
<input type="text"/>		
12/10/2022	10:00:00	>
South Crouse Non-urgent	Syracuse	
12/11/2022	10:00:00	>
Maryland Non-urgent	Dallas	
12/10/2022	11:00:00	>
Westcott Urgent	New York	
12/11/2022	12:00:00	>
Crouse Ave Non-urgent	Atlanta	
12/12/2022	13:00:00	>
Ostrom Urgent	Houston	



2. To view current appointment and check appointment history:



Appointment History	
Past Appointments	
12/11/2022	10:00:00
Urgent	
12/10/2022	11:00:00
Non-urgent	
12/12/2022	11:30:00
Urgent	
11/11/2022	12:30:00
Non-urgent	

3. To order medicines of required quantity:

MEDICINES MENU



Order Medicine

Current Orders

Book Meds

Crocin
GSK
OTC >

Dolo-625
Roche
OTC >

Dolo-150
Pfizer
OTC >

ibuprofen
J&J
Prescription >

volini
Novartis
OTC >

Benadryl
Merck >

X View Medicine Requests ✓

drug_name
Crocin

drug_company_name
GSK

drug_type
OTC

drug_expiry
2029-12-12

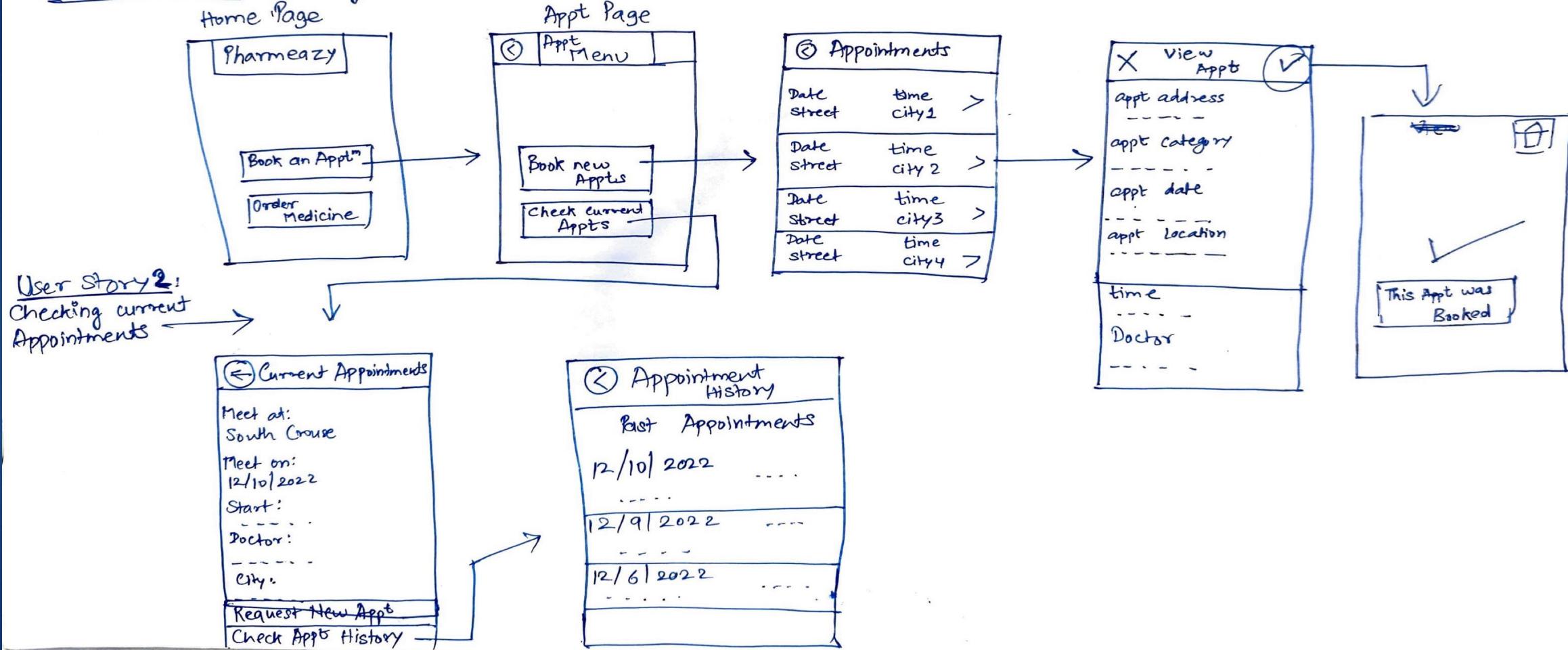
drug_expiry_barcode
hdejwcvbfqw

* drug_quantity
40

Hand-Drawn Layout of PowerApp

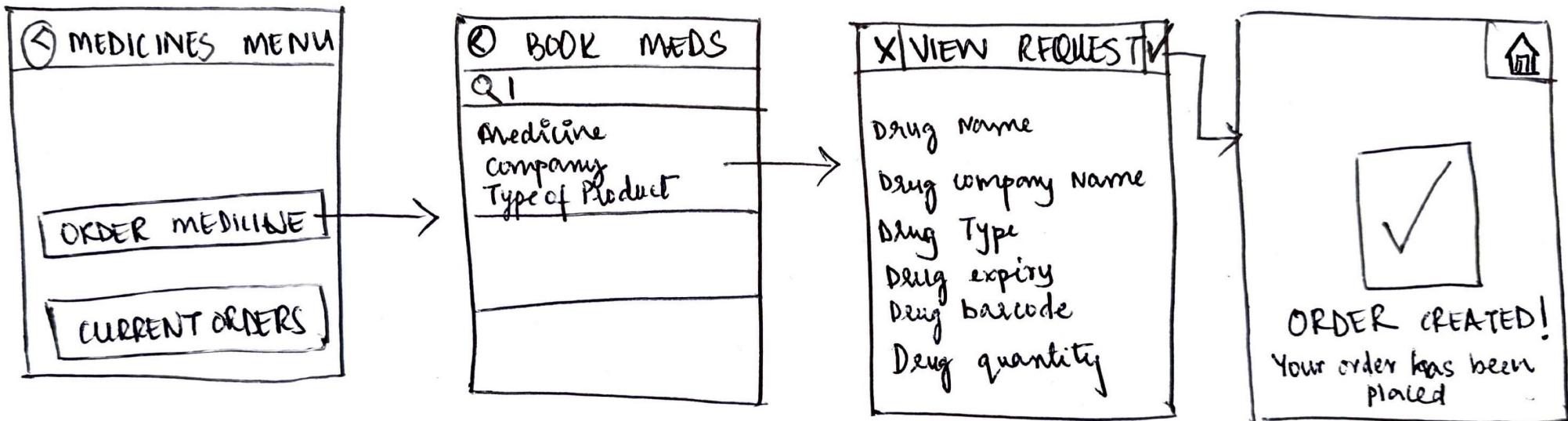
Layout of the PowerApp

User Story 1: Booking a consultation Appointment



Hand-Drawn Layout of PowerApp

User story 3: To order Medicines





THANK YOU