hochschule hof
University of Applied Sciences

Patient Management Mobile Application

Maneesh Singh

July 27, 2017

Content

hochschule hof
University of Applied Sciences

1. Abstract
2. Introduction
3. Software and Tools:
4. Environment
5. UML
6. UI
7. Test
8. Questions

Abstract

Android application to assist Doctor's for patient data management and viewing. The doctor can easily add new patient's info as well as track the patient medical history at any given point of time all in his android mobile phone.

Introduction

- It is implementation of an android application for patient data management and viewing.
- The system is aimed to help doctors to add new patient personal information and update the medical condition each time he visits.
- The doctor can use the application to get all the past medical history of that particular patient at any given point of time.
- The doctor can also check on all the patients he treated for any particular day of the calendar.

Introduction cont(2)...

- Doctor can add a new patient, his personal information, medical information and also he can insert new medical conditions into the existing patient's medical records.
- The application allows doctor to insert various data fields regarding a patient including patient name, contact information, age, blood group, gender, medical condition, medication provided, date of visit.
- The doctor may now view this data as and when needed. The application allows doctor to search patients by name which displays all his medical conditions and the medication received in a chronological order starting from most recent visit.

Software and Tools:

hochschule hof
University of Applied Sciences

- Android SDK
- Android-Studio
- Android Phones: HTC One, Nexus 5x, Moto G devices used to test the application
- SQLite
- Star UML

Database Tables

hochschule hof
University of Applied Sciences

Table 1: Doctor

login	password
varchar	varchar

Table 2: Patient

Fname	Lname	Email	Mobile	Address	Age	Bloodgroup
Varchar	Varchar	Varchar	Varchar	Varchar	Number	Varchar

Table 3: Medical_History

email	date_of_visit	condition	medication	note
varchar	date	varchar	varchar	varchar

Use Case Diagram

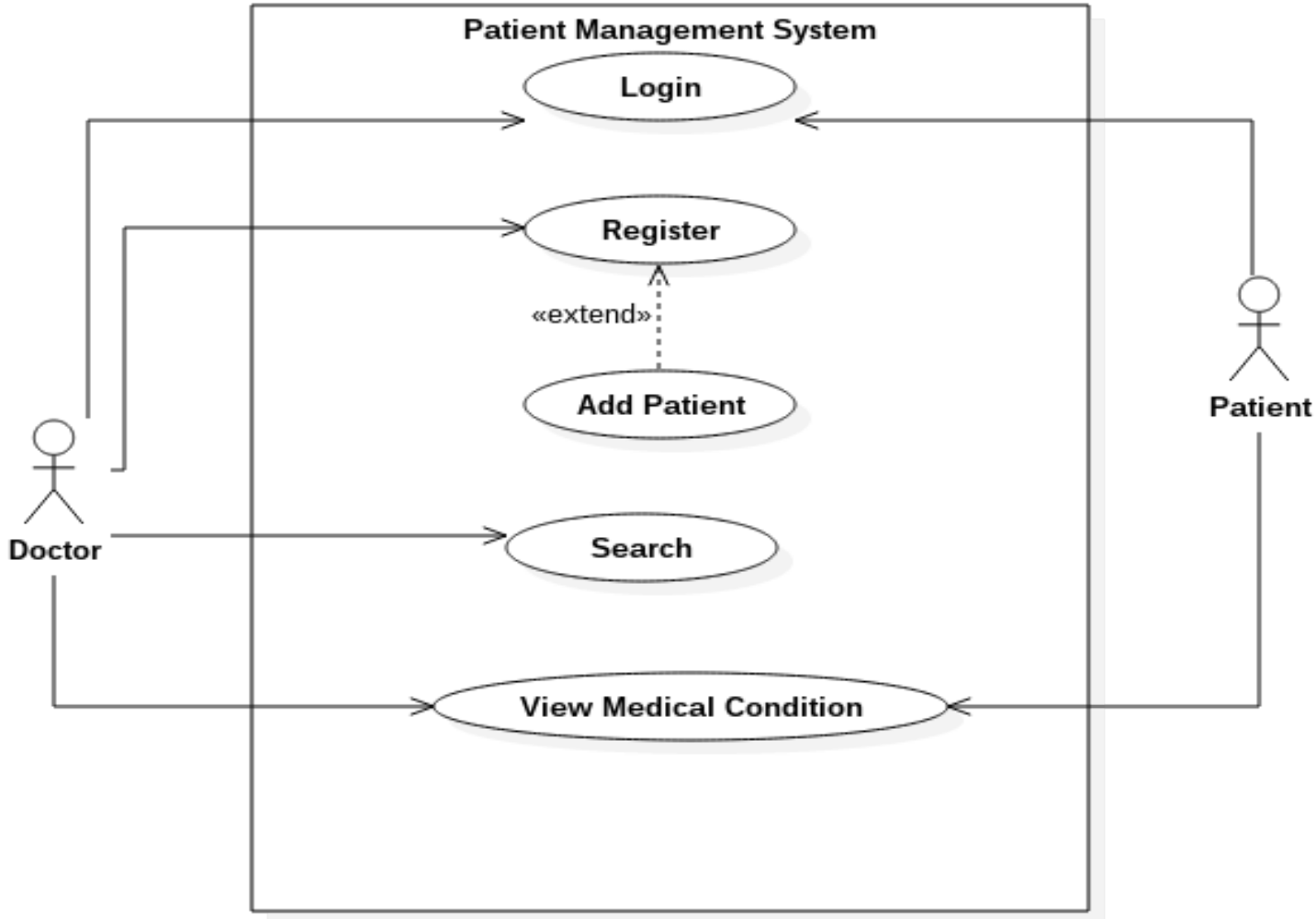
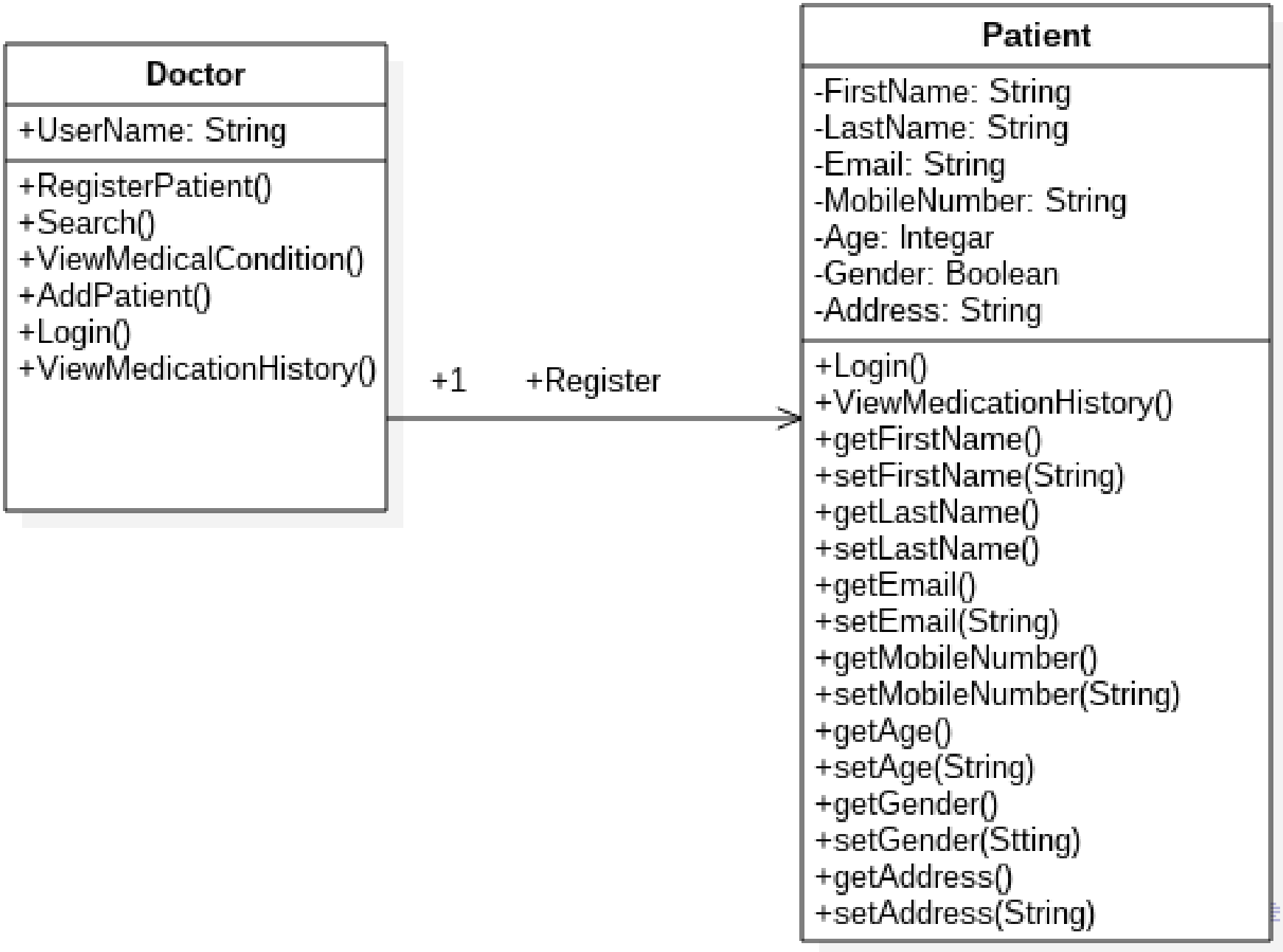


Figure 1: UseCase Diagram.

Class Diagram



Sequence Diagram

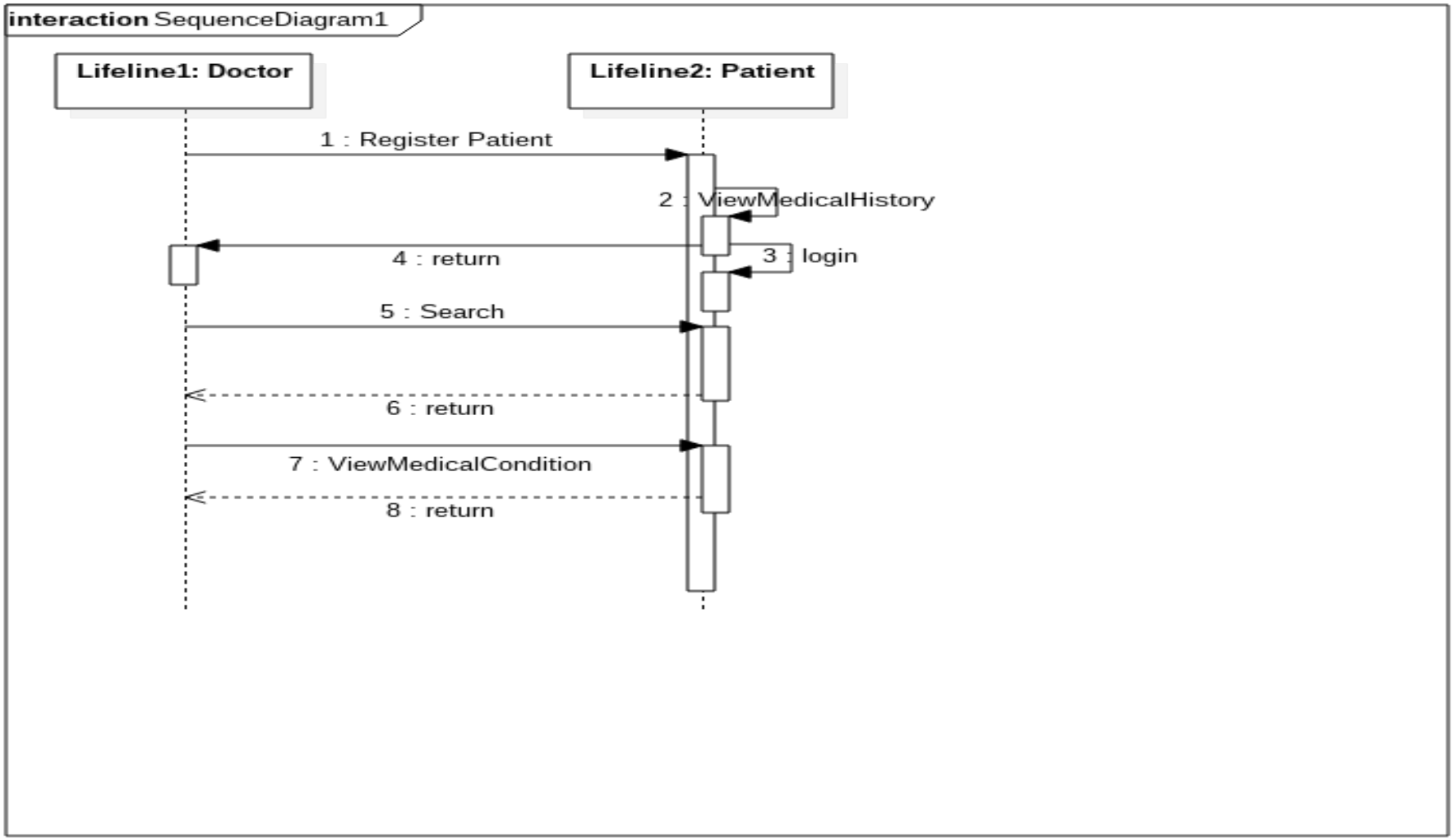


Figure 3: Sequence Diagram.

Login

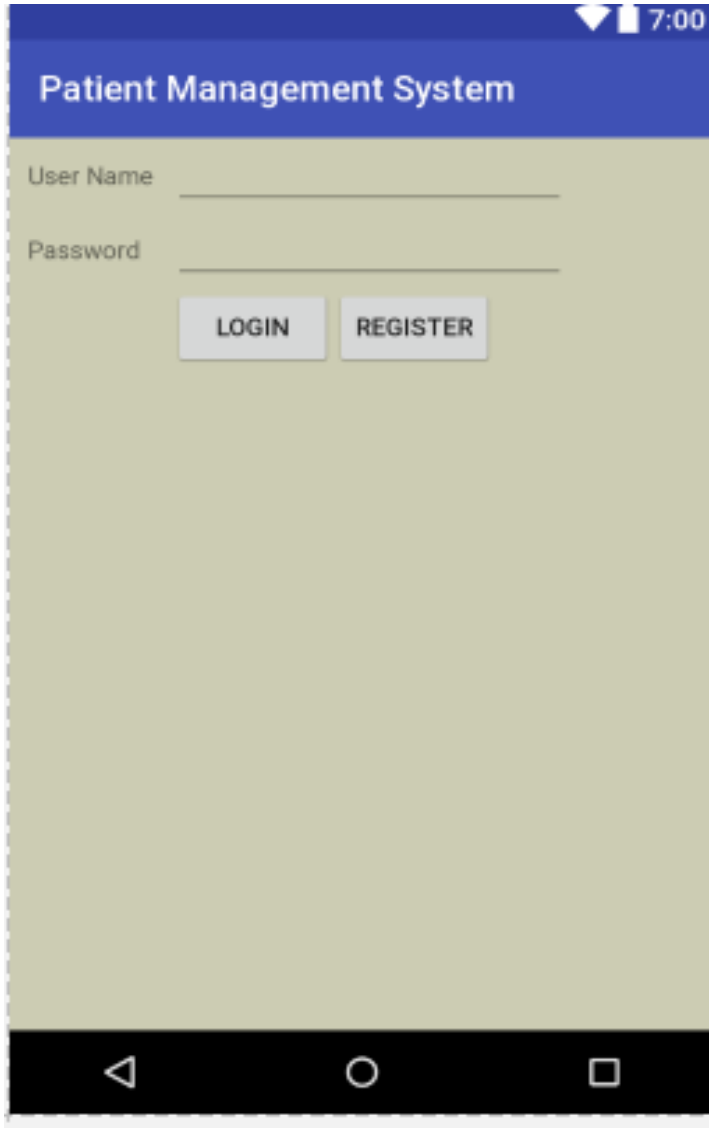


Figure 4: Login

Register

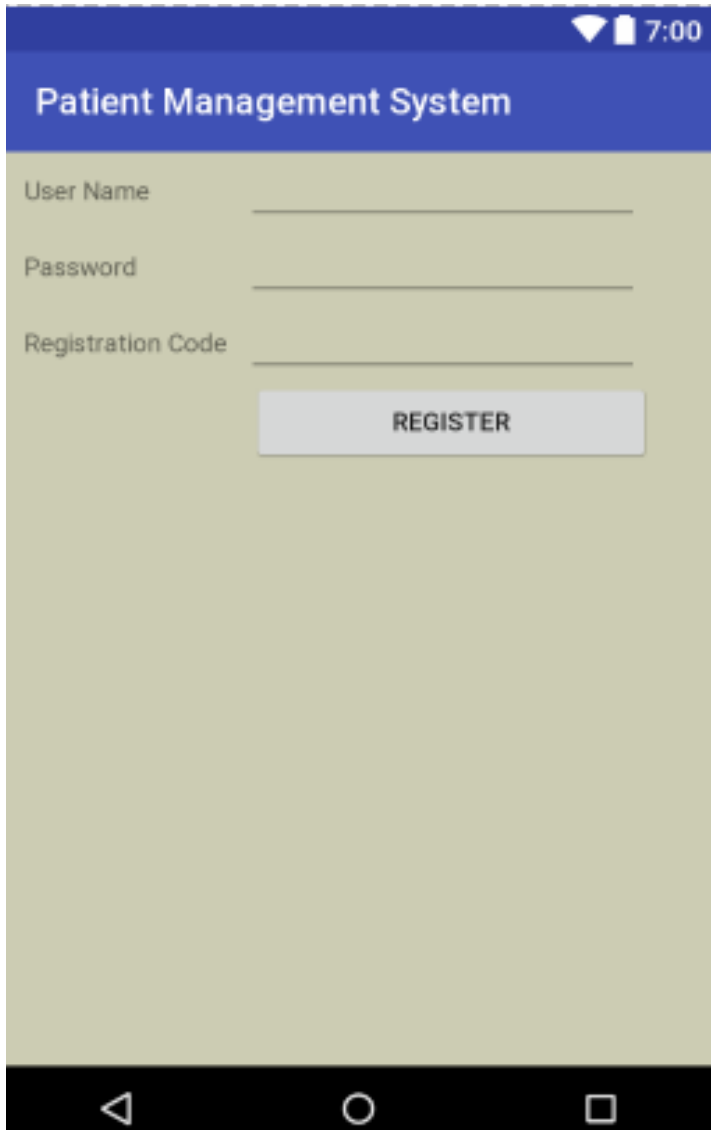


Figure 5: Register

Doctor's Menu

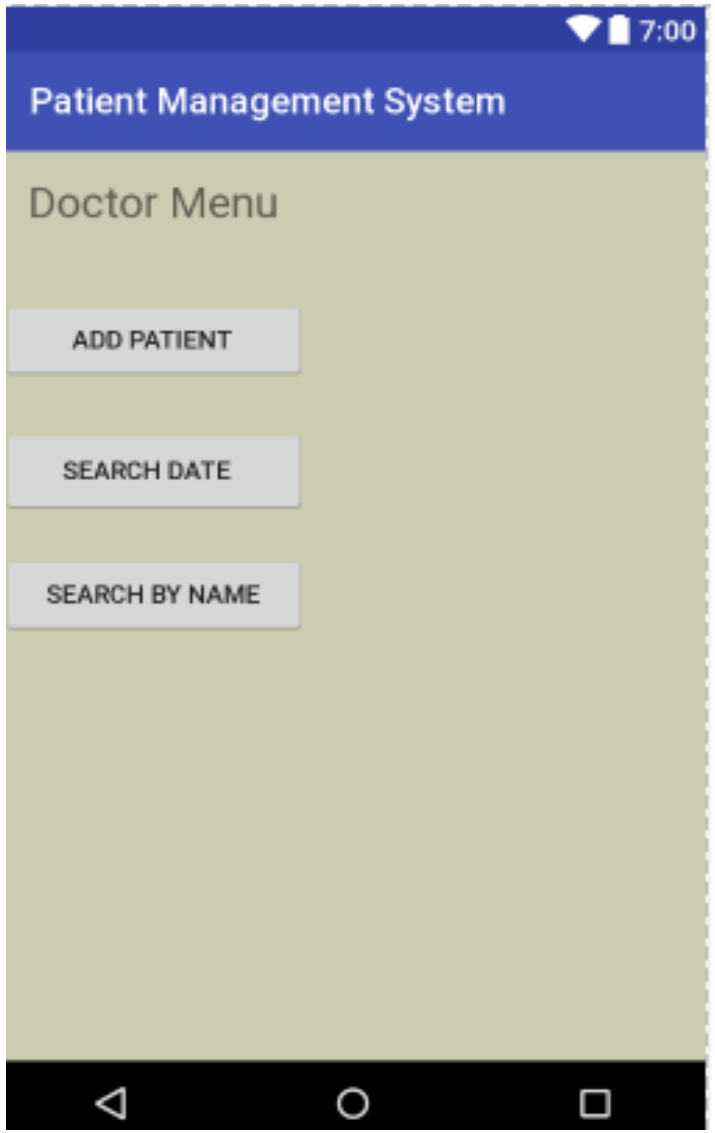


Figure 6: Doctor's Menu

Add Patient

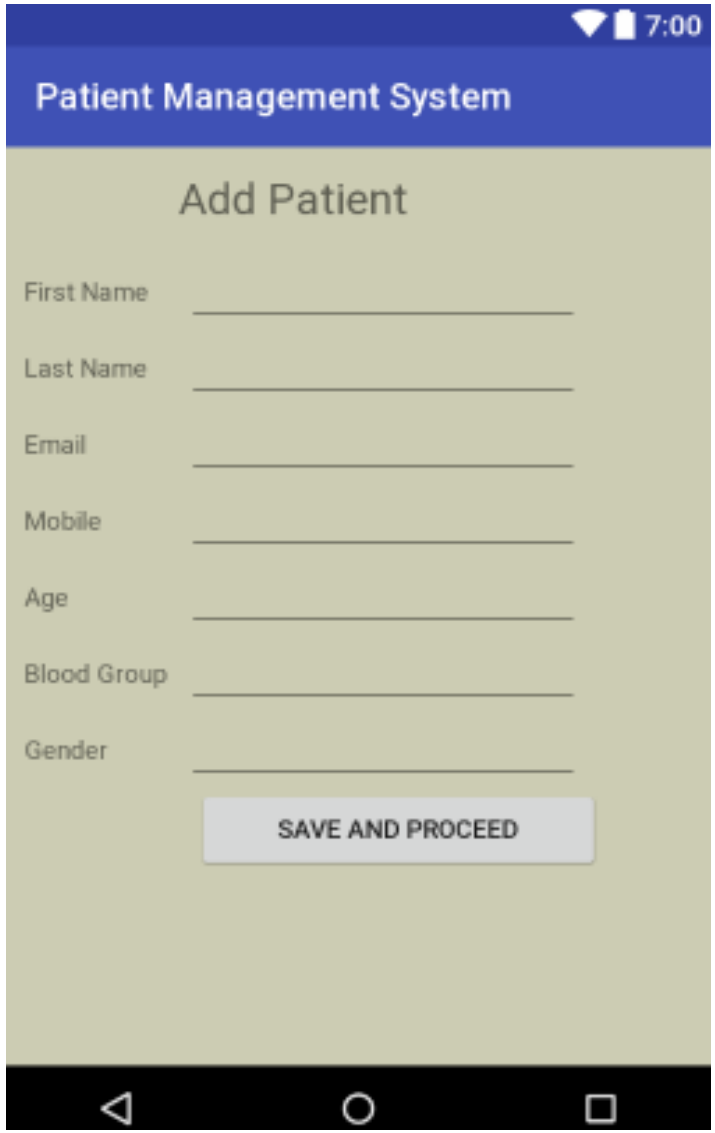


Figure 7: Add Patient

Medical Input

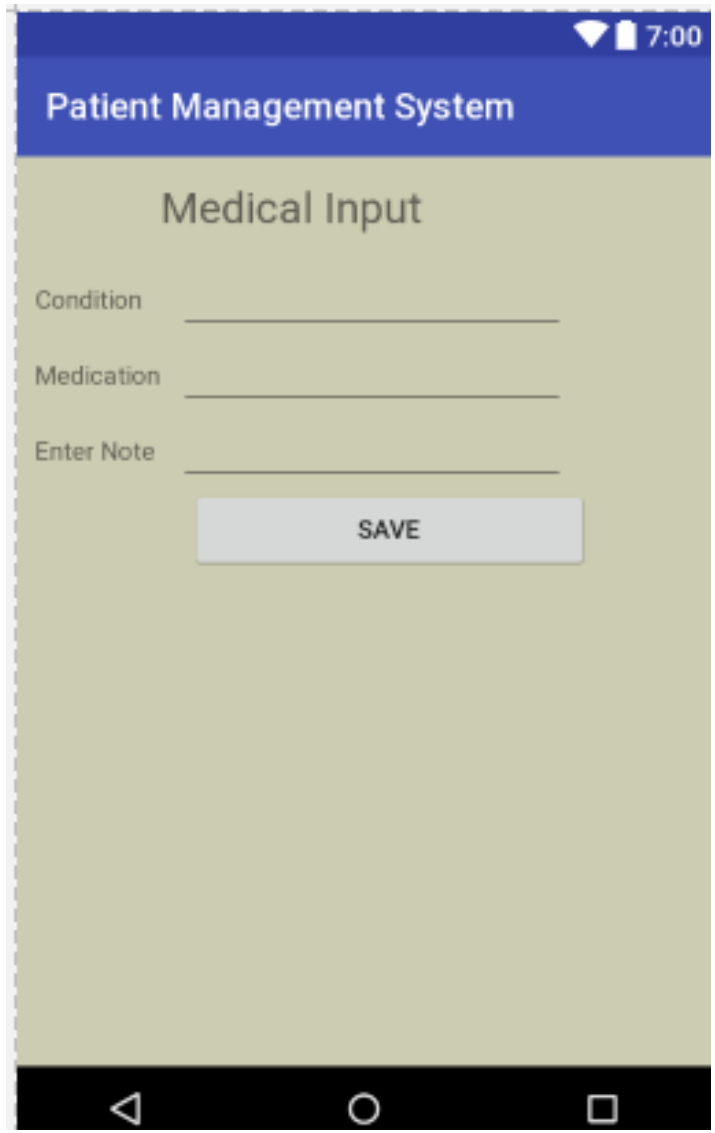


Figure 8: Medical Input

Search by Name

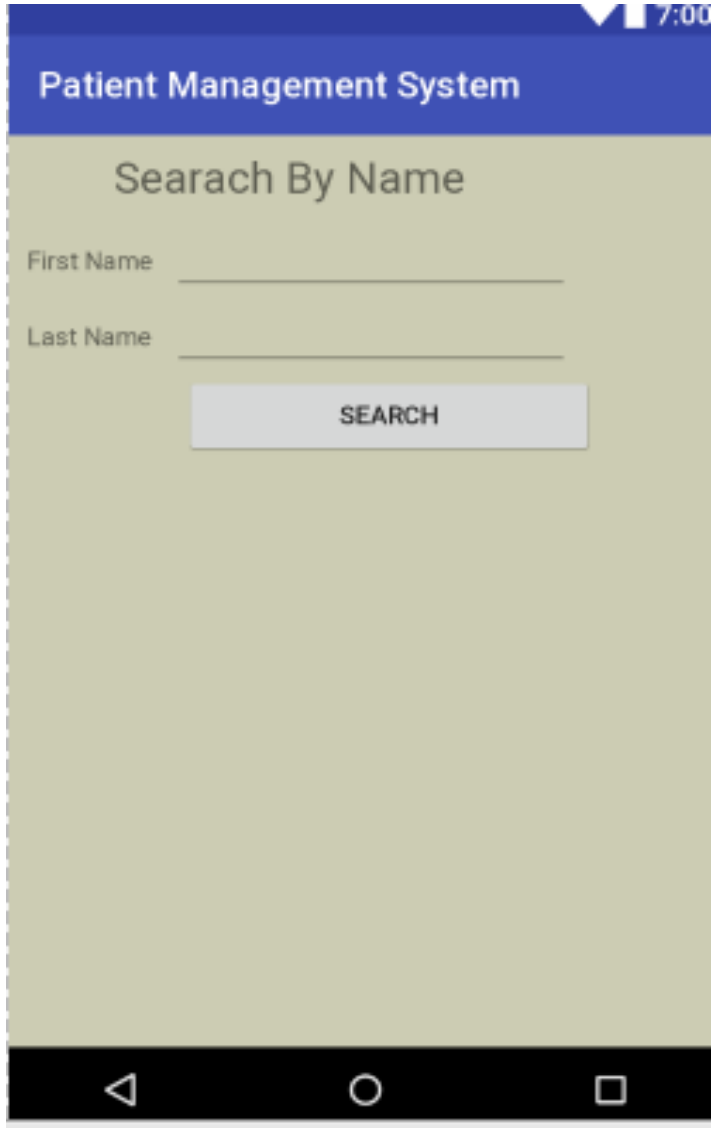


Figure 9: Search by Name

Search by Date

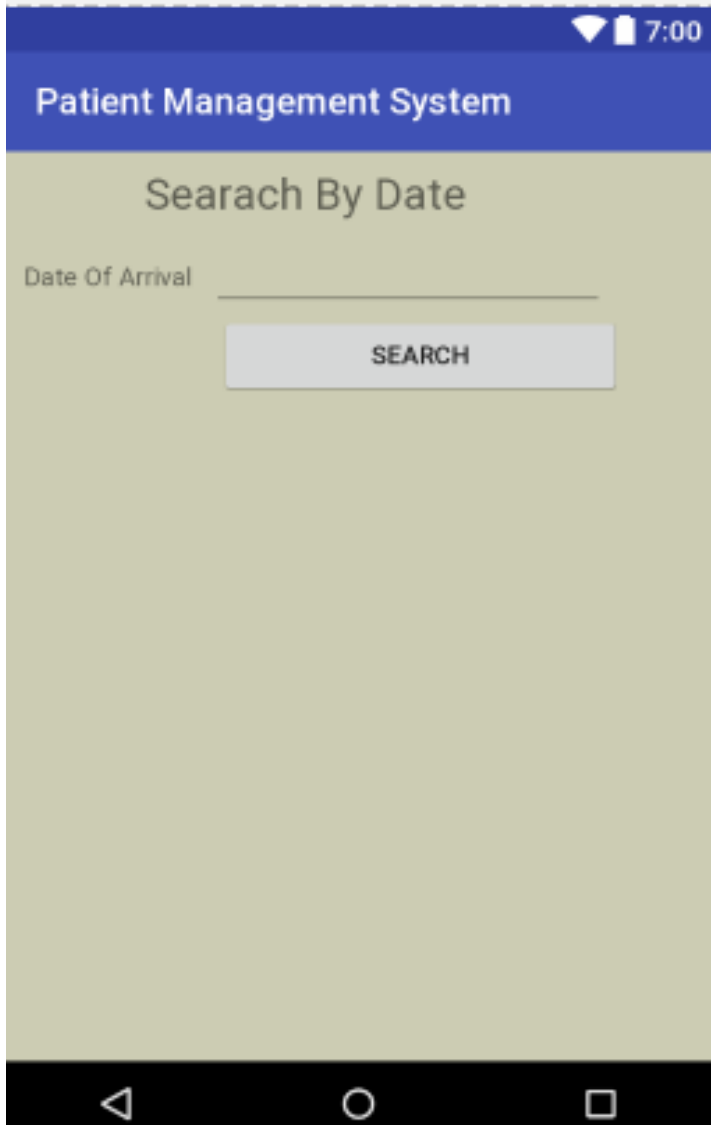


Figure 10: Search by Date

Test Cases: Login

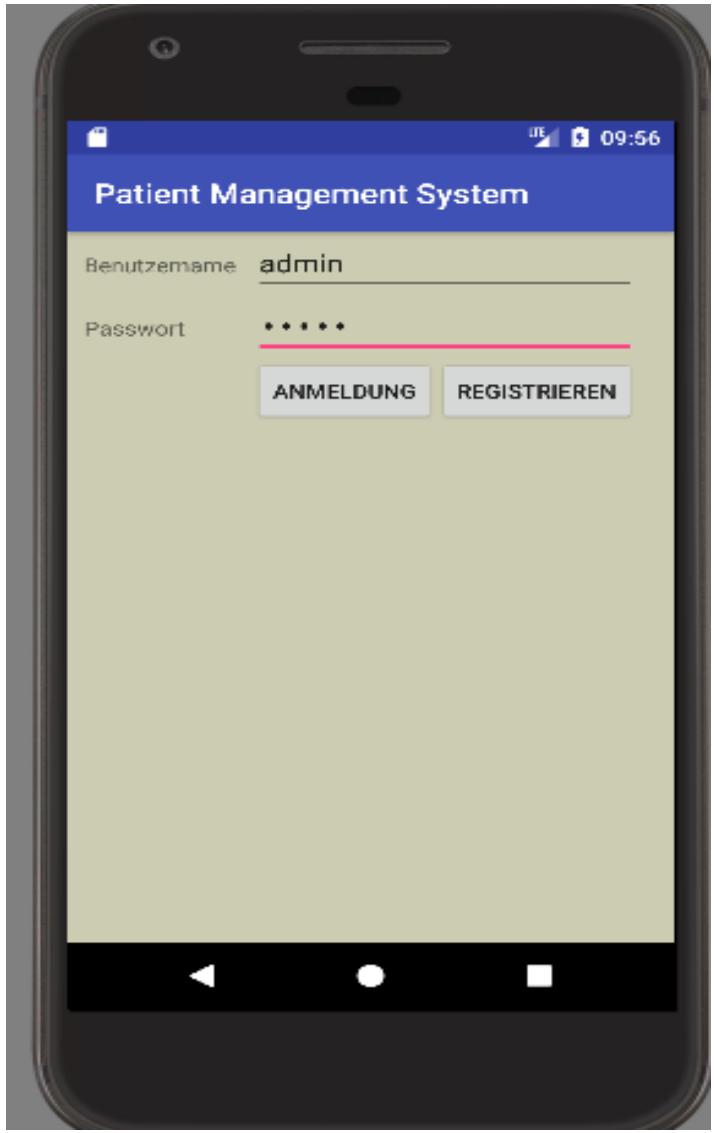


Figure 11: Initial Login Screen

Test Case: Invalid Registration Code

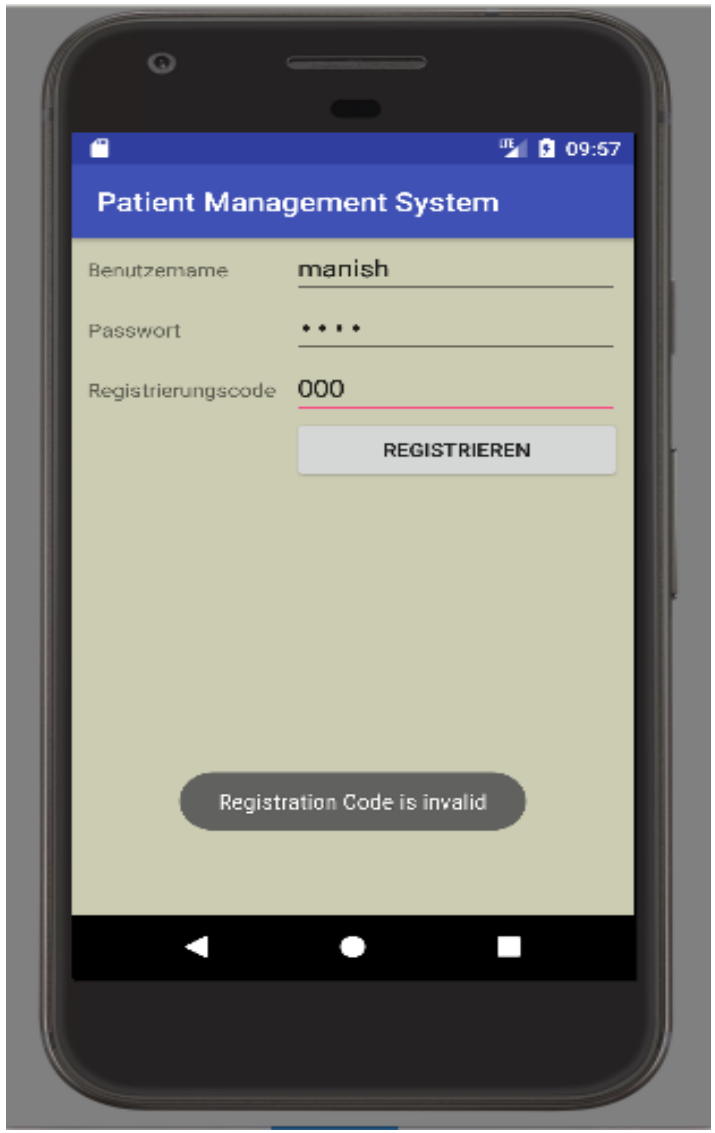


Figure 12: Invalid Registration Code

Test Case: Inactive Registration Code

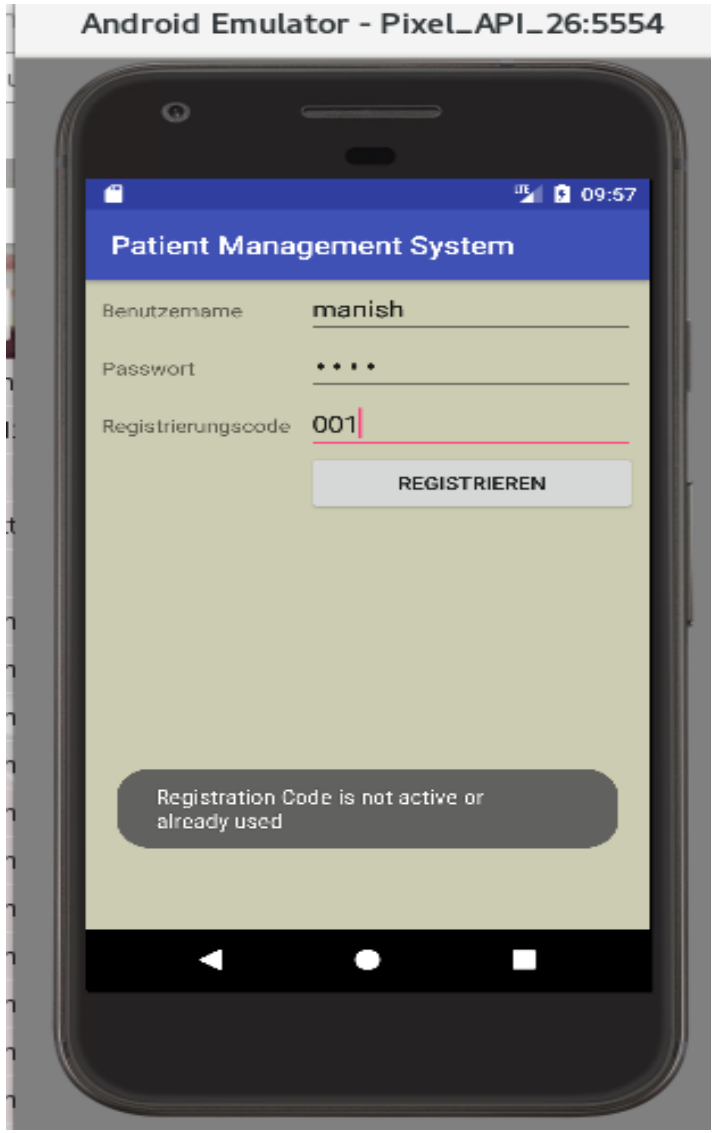


Figure 13: Inactive Registration Code

Test Case: Normal User Screen

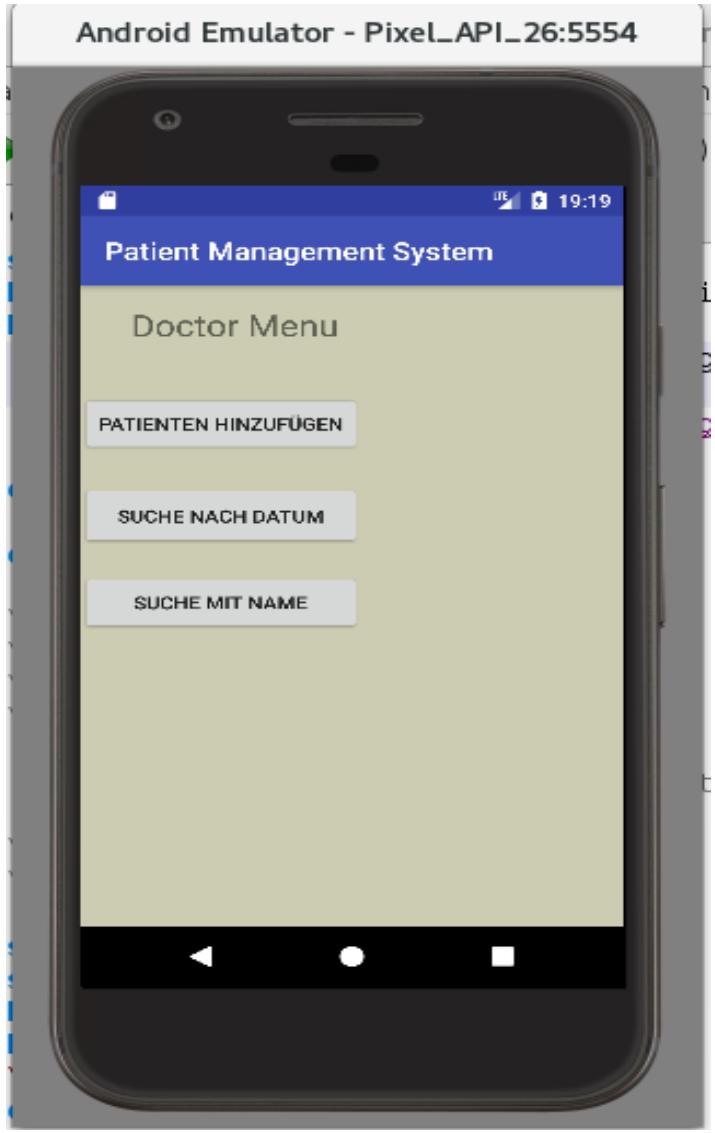


Figure 14: Normal User Screen

Test Case: Admin User Screen

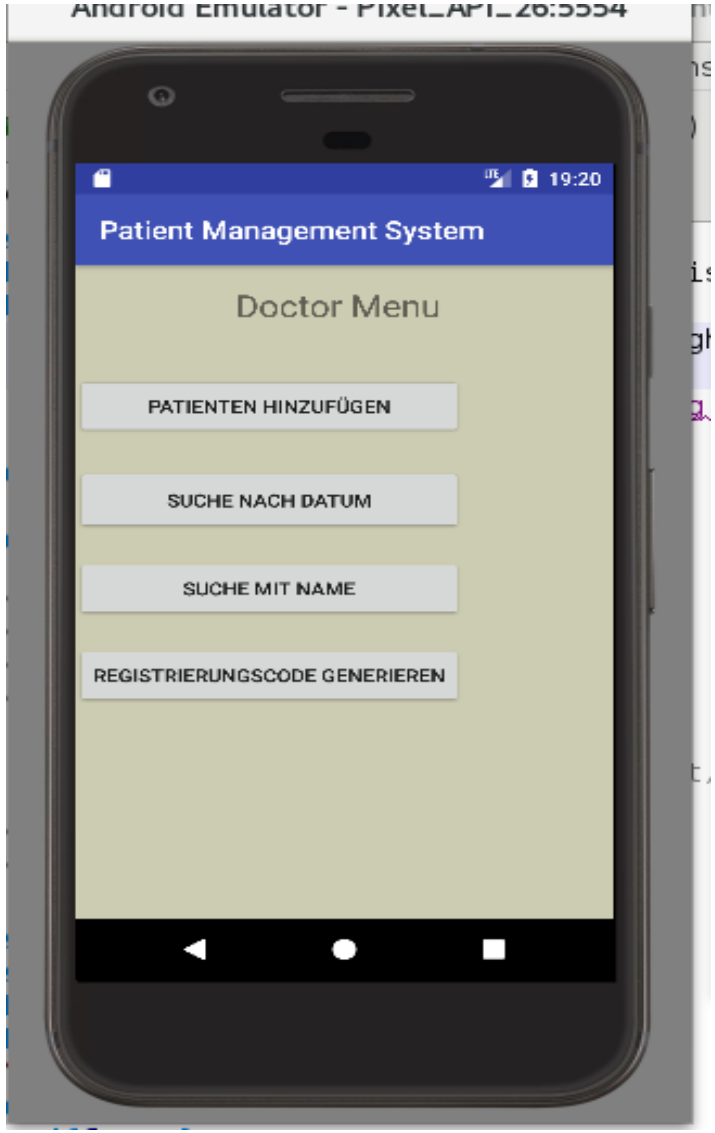


Figure 15: Admin User Screen

Test Case: Add Patient

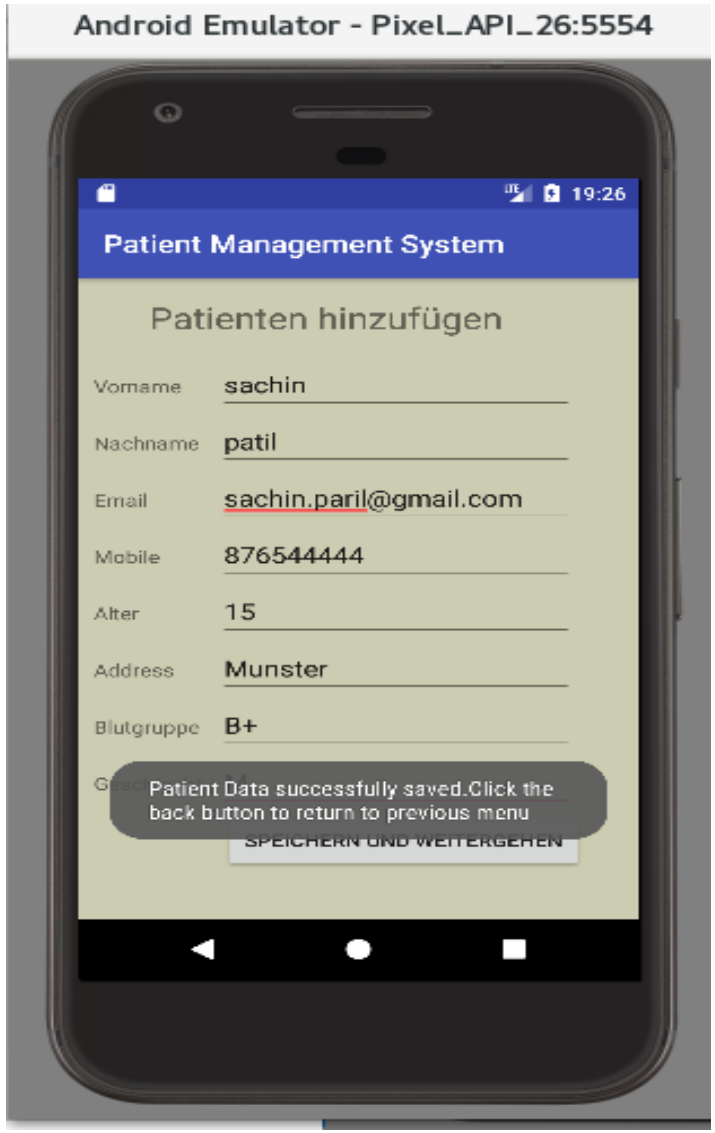


Figure 16: Add Patient Success

Test Case: Add Duplicate Patient

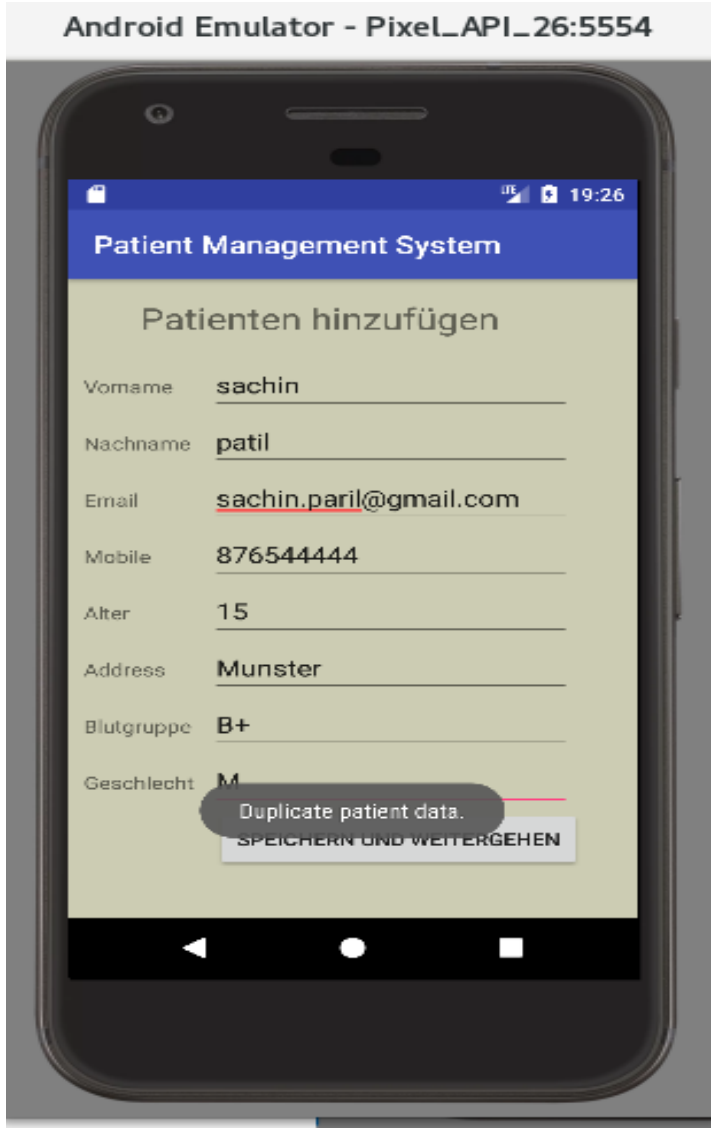


Figure 17: Add Duplicate Patient

Test Case: Search Patient By Name

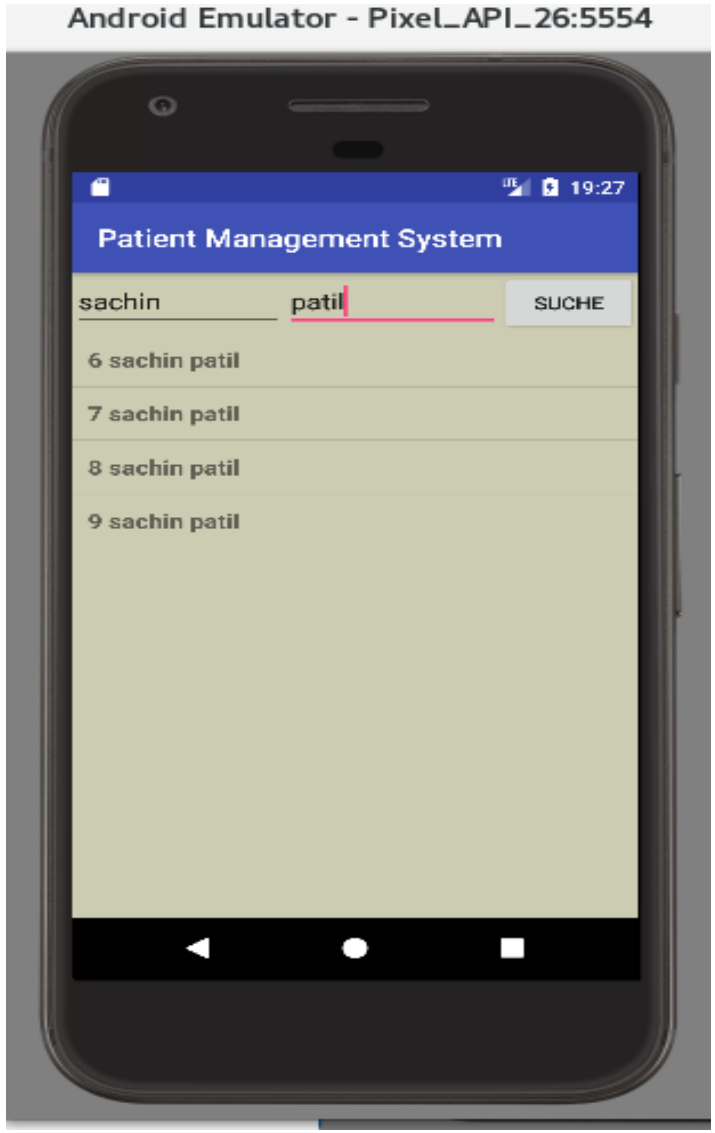


Figure 18: Search Patient By Name

Questions and Answers

hochschule hof
University of Applied Sciences

Q&A