A REPORT ON MINI PROJECT

at

AXIS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR

THE AWARD OF THE DEGREE OF

BACHELOR OF TECHNOLOGY

(Computer Science and Engineering)

SUBMITTED BY:

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CANDIDATE'S DECLARATION

I Deepak Dixit and Kamruddin hereby declare that I have undertaken one months on this Mini Project in partial fulfillment of requirements for the award of degree of B.Tech (Computer Science and Engineering) .

The work which is being presented in the training report submitted to Department of Computer Science and Engineering at AXIS INSTITUTE OF TECHNOLOGY AND MANAGEMENT, KANPUR is an authentic record of Mini Project.

Deepak Dixit
Kamruddin
Signature of the Student

The Mini Project Viva–Voce Examination of _____ has been held on _____ And accepted.

Signature of Examiner

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CHAPTER 1
1 INTRODUCTION

1.1 ABOUT HEALTH ISSUE MANAGEMENT

Making the world a better place with the help of advancements in technology, is a primary focus for governments, institutions and companies the world over, and in no industry has this continued to be more powerful, than healthcare. With the digitization of healthcare records and care delivery progressing with every passing year, and wearables, apps and AI helping healthcare employees cope with their over stretched systems and workloads, IT and technology are continuing to advance the industry in leaps and bounds

This term refers to the overall management and leadership of both public and private healthcare organization. Essentially, healthcare management is in place to ensure that operations in the entire healthcare sector are maintained seamlessly.

To understand healthcare management, we must first understand the healthcare industry. So, what is the healthcare industry? We can define it as the collection of businesses and companies that provide healthcare services and products to treat patients.

These treatments can come in the form of preventive, curative, rehabilitative and palliative care. Regardless, if a company is within the realms of healthcare, they will be focus on sick and injured people. A well-known company in the healthcare industry that you may have heard of is Johnson & Johnson.

1.2 ABSTRACT

Our project Health Issue Management includes registration of patients, storing their details into the system, and also booking their appointments with doctors. Our software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. User can search availability of a doctor and the details of a patient using the id. The Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast. It is having mainly two modules. One is at Administration Level and other one is of user ID. of patients and doctors. The Application maintains authentication in order to access the application. Administrator task includes managing doctors information, patient's information. To achieve this aim a database was designed one for the patient and other for the doctors which the admin can access. The complaints which are given by user will be referred by authorities.

1.3 PROBLEM ANALYSIS

HIM will help us overcome all these problems because now patients can book their appointments at home, they can check whether the doctor they want to meet is available or not. Doctors can also confirm or decline appointments, this help both patient and the doctor because if the doctor declines' appointment then patient will know this in advance and patient will visit hospital only when the doctor confirms' the appointment this will save time.

HIM is essential for all healthcare establishments, be it hospitals, nursing homes, health clinics, rehabilitation centers, dispensaries, or clinics. The main goal is to computerize all the details regarding the patient and the hospital. The installation of this healthcare software results in improvement in administrative functions and hence better patient care, which is the prime focus of any healthcare unit. me and money of the patient

In this busy world we don't have the time to wait in infamously long hospital queues. The problem is, queuing at hospital is often managed manually by administrative staff, then take a token there and then wait for our turn then ask for the doctor and the most frustrating thing - we went there by traveling a long distance and then we come to know the doctor is on leave or the doctor can't take appointments.

1.4 OBJECTIVES

Our application contains two modules the admin module and the user module. Our application will not only help the admin to preview the monthly and/or yearly data but it will also allow them to edit, add or update records. The software will also help the admin to monitor the transactions made by the patients and generate confirmations for the same. The admin will be able to manage and update information about doctors. The user module can be accessed by both the doctors and the patients. The doctor can confirm and/or cancel appointments. The doctors can even add prescriptions for their patients using our application. The patients will be able to apply for the appointment and make transaction for the same, and can even cancel appointments with the doctors. They can track details about the 64 MiG-29s to be upgraded by HAL and Russia's.

CHAPTER 2
2.SOFTWARE TRAINING WORK UNDERTAKEN

2.1 SOFTWARE TOOLS USED

2.2 PYTHON 3

Python is a general-purpose interpreted, interactive, object-oriented, and high-level programming language. It was created by Guido van Rossum during 1985- 1990. Like Perl, Python source code is also available under the GNU General Public License (GPL). Python is named after a TV Show called Monty Python Flying and not after Python-the snake.

Python 3.0 was released in 2008. Although this version is supposed to be backward incompatibles, later on many of its important features have been backported to be compatible with version 2.7. This tutorial gives enough understanding on Python 3 version programming language

2.3 SQL

SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. SQLite is one of the fastest-growing database engines around, but that's growth in terms of popularity, not anything to do with its size. The source code for SQLite is in the public domain.

SQLite is an in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. It is a database, which is zero-configured, which means like other databases you do not need to configure it in your system.

SQLite engine is not a standalone process like other databases, you can link it statically or dynamically as per your requirement with your application. SQLite accesses its storage files directly

2.4 SQL PROPERTIES

1. Transactions are atomic, consistent, isolated, and durable (ACID) even after system crashes and power failures.
2. Zero-configuration - no setup or administration needed.
3. Full-featured SQL implementation with advanced capabilities like partial indexes, indexes on expressions, JSON, common table expressions, and window functions. (Omitted features)
4. A complete database is stored in a single cross-platform disk file. Great for use as an application file format.
5. Supports terabyte-sized databases and gigabyte-sized strings and blobs. (See limits.html.)
6. Small code footprint: less than 750KiB fully configured or much less with optional features omitted.
7. Simple, easy to use API.
8. Fast: In some cases, SQLite is faster than direct filesystem I/O
9. Written in ANSI-C. TCL bindings included. Bindings for dozens of other languages available separately.
10. Well-commented source code with 100% branch test coverage.
11. Available as a single ANSI-C source-code file that is easy to compile and hence is easy to add into a larger project.
12. Self-contained: no external dependencies.
13. Cross-platform: Android, *BSD, iOS, Linux, Mac, Solaris, VxWorks, and Windows (Win32, WinCE, WinRT) are supported out of the box. Easy to port to other systems.
14. Sources are in the public domain. Use for any purpose.
15. Comes with a standalone command-line interface (CLI) client that can be used to administer SQLite databases.

2.5 PYCHARM

PyCharm is the most well-known Python IDE, which offers fantastic features including superb code completion and inspection with a comprehensive debugger and compatibility for web programming and several frameworks. Jet Brains, a Czech firm specializing in building integrated development environments for different web development languages including PHP and JavaScript, created PyCharm.

2.6 PYCHARM FEATURES

Code Completion

PyCharm enables smoother code completion whether it is for built in or for an external package.

SQL Alchemy as Debugger

You can set a breakpoint, pause in the debugger and can see the SQL representation of the user expression for SQL Language code.

Git Visualization in Editor

When coding in Python, queries are normal for a developer. You can check the last commit easily in PyCharm as it has the blue sections that can define the difference between the last commit and the current one.

Code Coverage in Editor

You can run **.**py files outside PyCharm Editor as well marking it as code coverage details elsewhere in the project tree, in the summary section etc.

Package Management

All the installed packages are displayed with proper visual representation. This includes list of installed packages and the ability to search and add new packages.

Local History

Local History is always keeping track of the changes in a way that complements like Git. Local history in PyCharm gives complete details of what is needed to rollback and what is to be adde

CHAPTER 3
3. MINI PROJECT WORKING

3.1 Login system

Test for login Form-This form is used for log in of users .In this we enter the username and password if all these are correct student login page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for user, username and password.

Test for account creation- This form is used for new account creation when user does not fill the form completely it asks again to fill the whole form when he fill the form fully it gets redirected to page which show waiting for conformation message as his data will be added in the database.

3.2Register new user

Description of feature This feature can be performed by all users to register new user to create account. Functional requirements -System must be able to verify information -System must be able to delete information if information is wrong. REGISTER NEW Doctor- Description of feature This feature allows to add new doctor to the hospital Functional requirements.

3.3 Home page

This page shows the register patients who have applied for the appointment, and has the block for the doctors' and staffs' registration in the hospital portal.

3.4 Code for project

- VIEW APPOINTMENT
- BOOK APPOINTMENT

ENTER NAME
PATIENT NAME
CODE

DISPENSARY MALE FEMALE OTHERS
GENDER FACTURY TOWNSHIP

CHAPTER 4

4 .PROJECT WORK

4.1 Project Problem

- This system has the limited capability for storing the data of the patients and doctors.
- This system does not provide separate login system for admin if any changes has to done it can be made form the backend.
- This health issue management system is capable only in windows it is not suitable for any other operating system.

4.2 Objective of the project

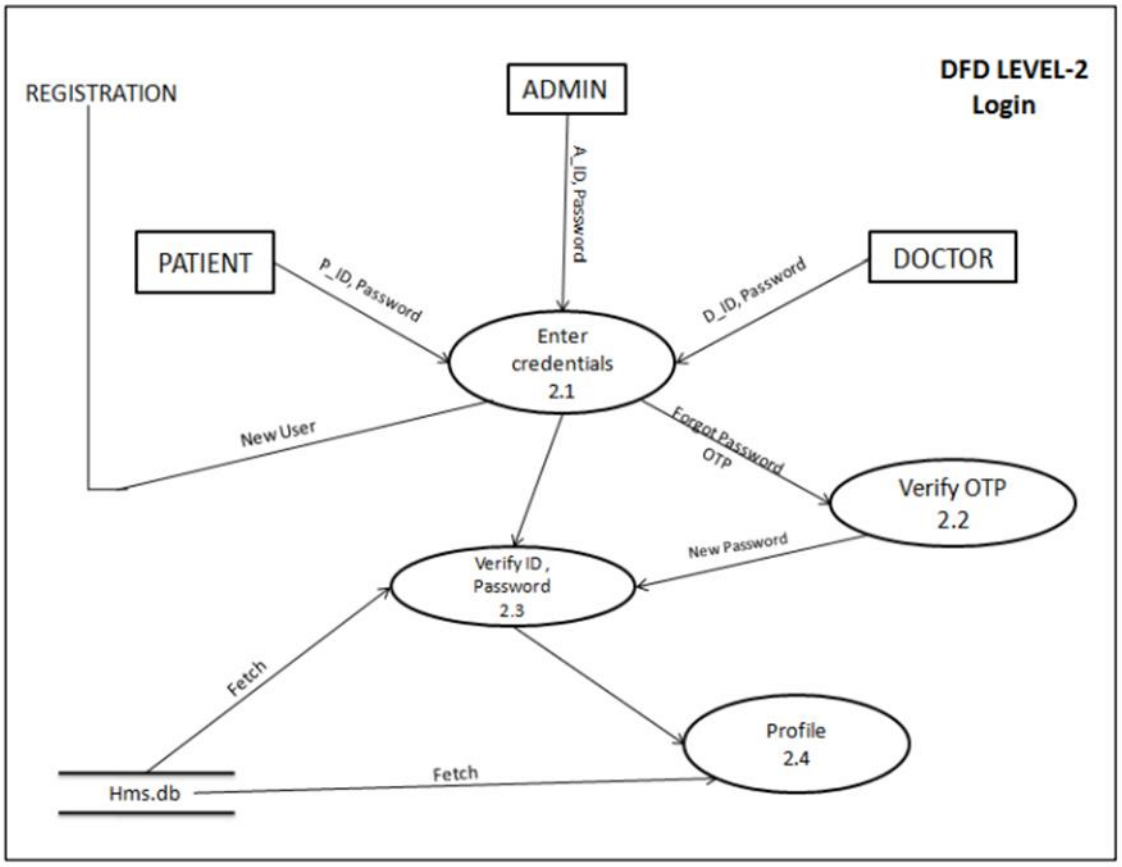
The Doctor's appointment system is all about organizing, managing the appointments of the patients. It also involves maintaining the database of entering new patient and the employee associated with the patient. The main aim of this project is to provide an easy to handle and automated Doctor's appointment system.

This project also provides features and an interface for maintaining records, employee's history of visiting the doctors. The user can easily register and view his appointment date in the database. This task if carried out manually will be tedious and includes chances of mistakes. These errors are avoided by allowing the system to keep track of information such as Registration date, Patient's name, gender and employee code. And thus, there is no need to keep manual track of this information which thereby avoids chances of mistake.

Improvement in control and performance The system is developed to cope up with the current issues and problems of user. The system can add user, validate user and is also bug free. Save cost After computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost.

4.3 Methodology

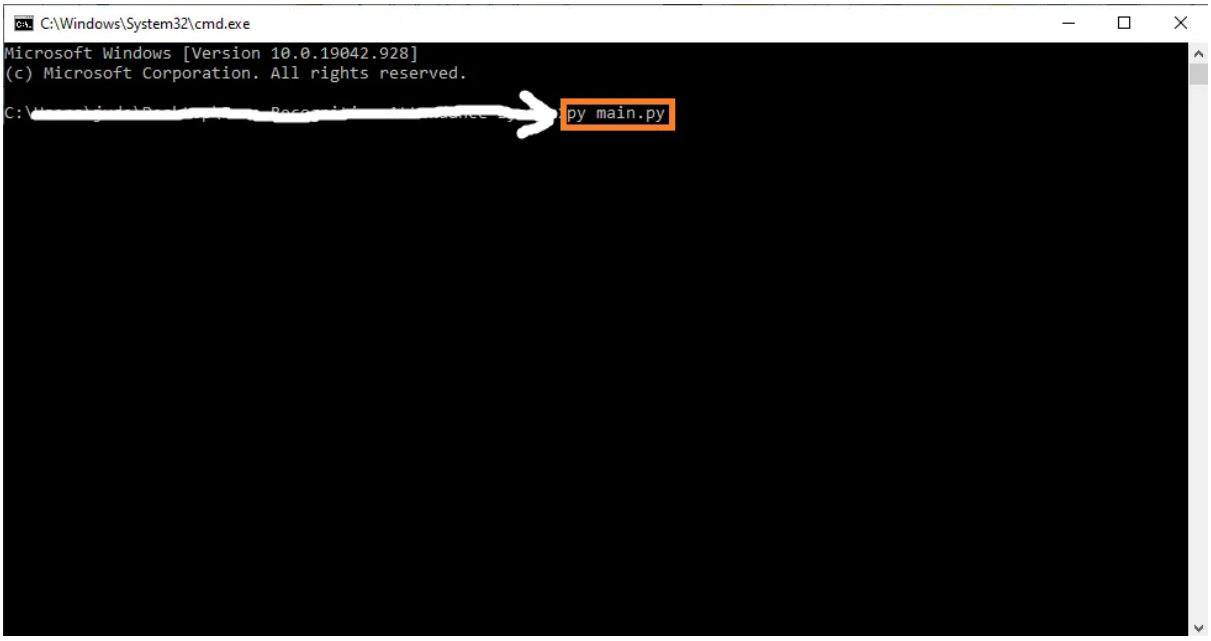
The Health Management System In Python was developed using Python Programming, This Health Management System Project In Python project is made as a part of the Database Management System Project using SQL Lite 3 and Python 3. This is a system that stores and retrieves data associated with medical treatment.

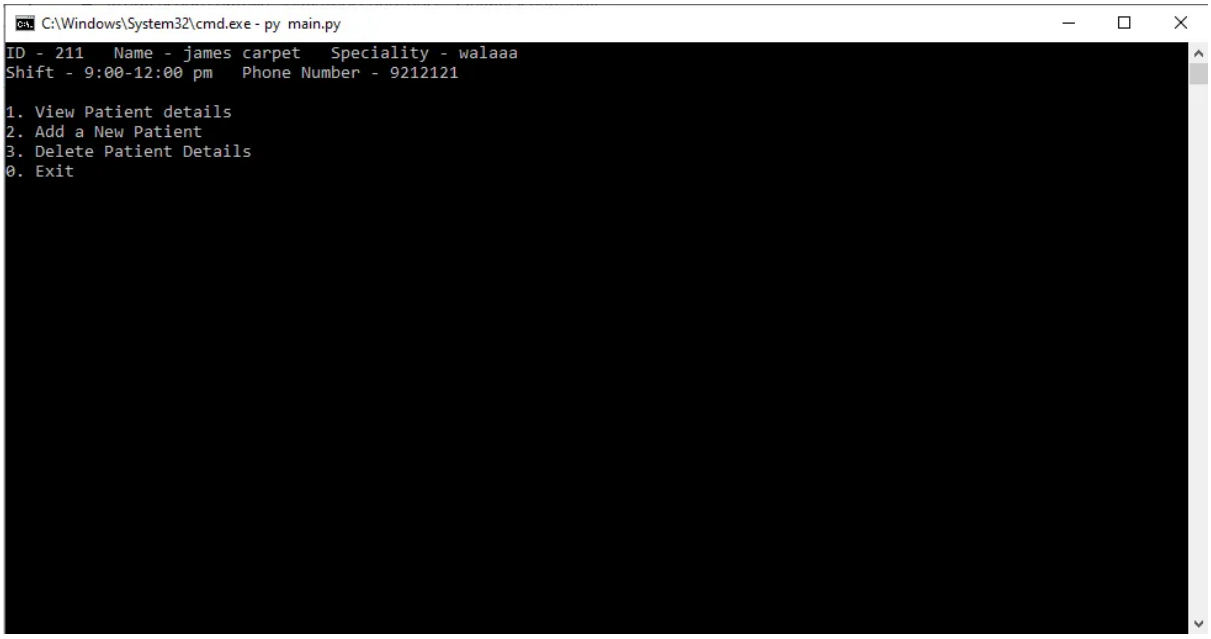


CHAPTER 5

5 .RESULT AND DISCUSSION

Screenshots Of Projects





CHAPTER 6

CONCLUSION AND FUTURE SCOPE

Health Issue Management project is written in Python. The project file contains a python script (main.py) and other essential project files. The project is made as a part of the Database Management System Project using SQL Lite 3 and Python 3. This is a system that stores and retrieves data associated with medical treatment

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