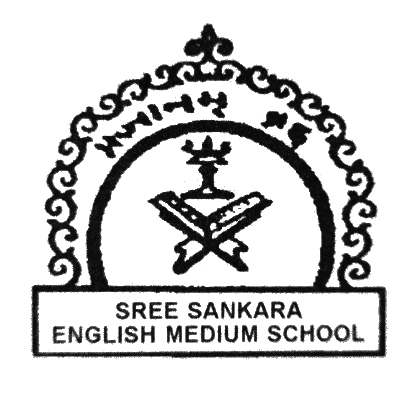
**SREE SANKARA ENGLISH**

**MEDIUM SCHOOL**

**KURUPPANKULANGARA**

**CHERTHALA**

**[CBSE AFFILIATION NO: 930384]**

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**ACADEMIC YEAR: 2023-24**

**COMPUTER PROJECT**

**PROJECT REPORT ON:**

**HOSPITAL MANAGEMENT**

**NAME : [Your Name]**

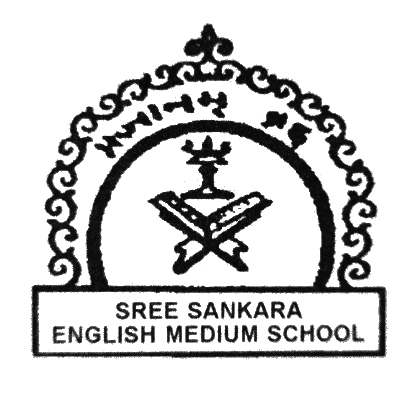
**CLASS : XII**

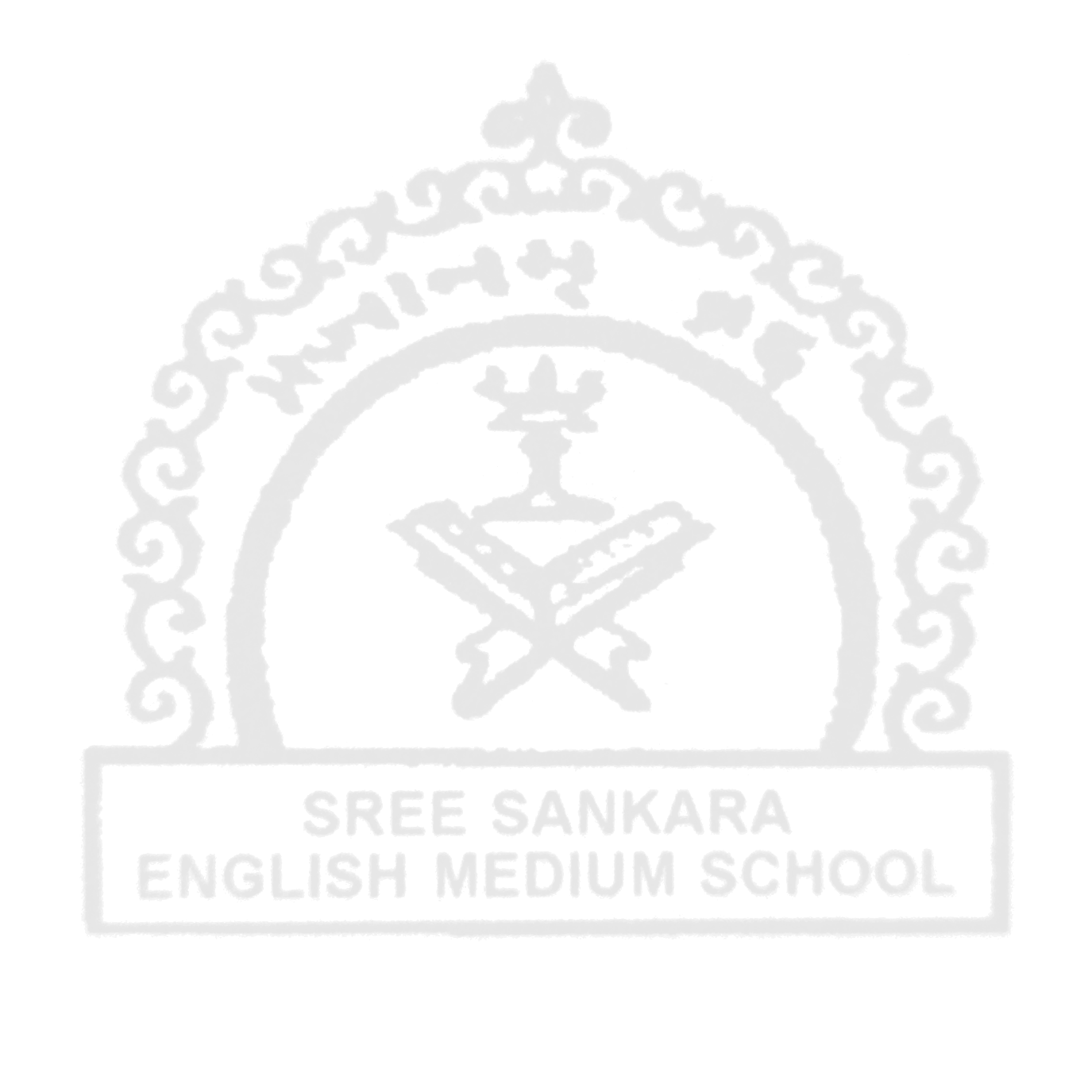
**ROLL NO :** 27

**SUBJECT : Computer Science**

**SUBJECT CODE :** 083

**SREE SANKARA ENGLISH MEDIUM SCHOOL**

****



**CERTIFICATE**

This is to certify that **[Your Name]** Roll No: **27** has successfully completed the project work entitled **Hospital Management** in the subject Computer Science (083) laid down in the regulations of CBSE for the purpose of Practical Examination in Class **XII** to be held in Sree Sankara English Medium School, Cherthala on **2023-24.**

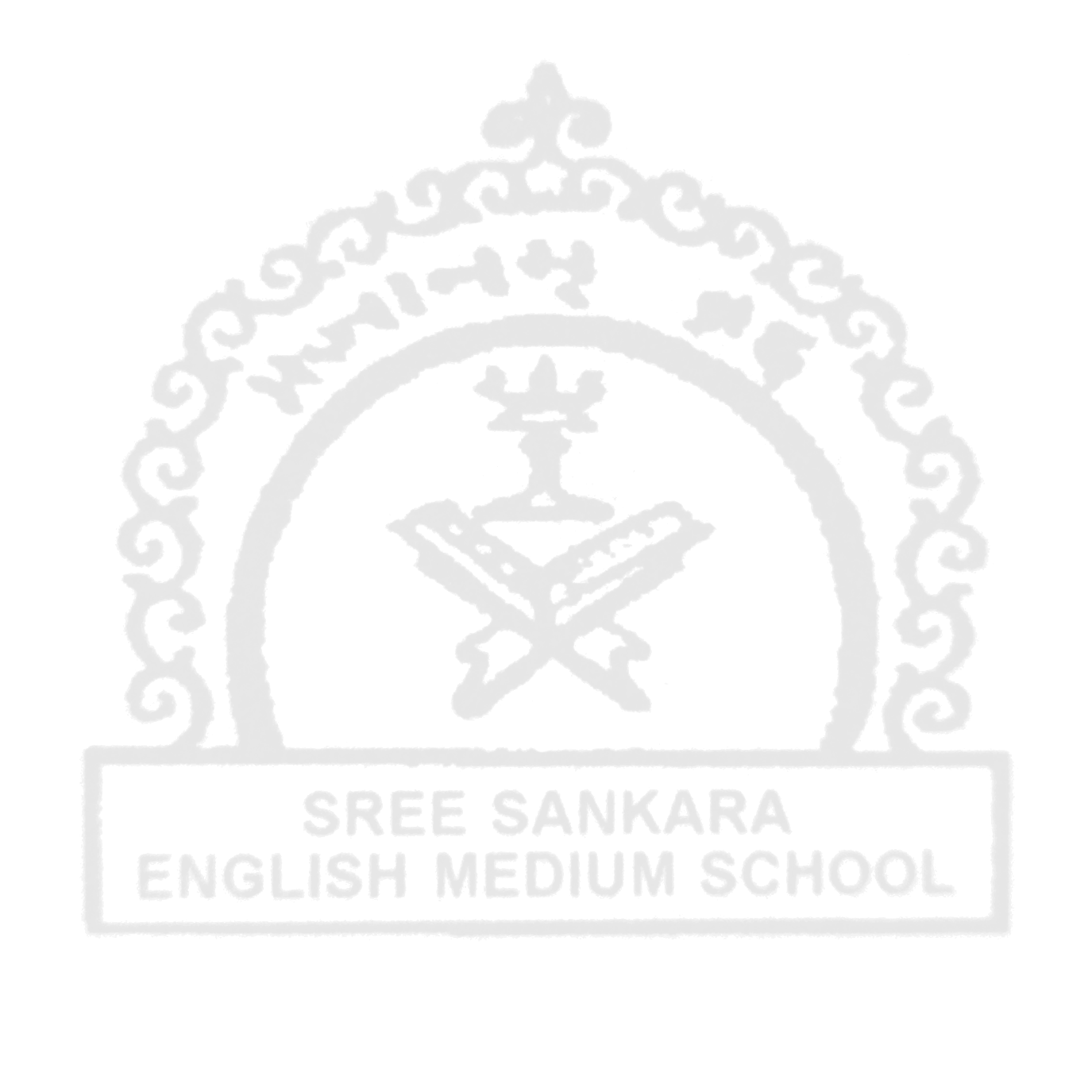
**Dr. U Suresh Kumar**

**Principal**

**INTERNAL EXAMINER EXTERNAL EXAMINER**

**DECLARATION**

I **[Your Name]** hereby declare that this project work entitled “**Hospital Management**” is done by me as a part of my **XII** Course under the guidance of ***Mrs. Karithka Padmakumar***, Computer Science Teacher of Sree Sankara English Medium School, Kuruppankulangara, Cherthala.



Place:

Date: Signature of the Candidate

|  |  |  |
| --- | --- | --- |
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Acknowledgement

This project ”**Hospital Management**” is done as per CBSE Syllabus and as a part of my curriculum. This time I am utilizing to thank all people who have been concerned with this project.

Primarily I would like to thank God for being able to complete this project with success. Then I would like to thank our honorable Principal ***Dr. U Suresh Kumar*** sir for allowing us to have the extensive use of the school facilities for the project.

My sincere thanks to ***Mrs. Karthika Padmakumar*** our guide who critically reviewed my project and helped in solving each and every problem occurred during the implementation of this project.

I also express my sincere thanks to my parents, classmates and other people who have helped me in bringing out this project.

Thanking You,

**[Your Name]**

**PROJECT ON HOSPITAL MANAGEMENT**

**INTRODUCTION**

With the project 'Hospital Management', our aim is to provide employees with seamless access to comprehensive doctor and patient information. This system expedites the registration process by capturing and storing exhaustive patient details. Employees can effortlessly retrieve and review patient and doctor records, including medical history, required treatments, previous visits, upcoming appointments, reports, insurance details, and more. This system not only streamlines the data collection process, sparing users from repetitive information gathering during each visit, but it also serves as a cost-effective solution. It minimizes the probability of errors while simultaneously enhancing data security and ease of retrieval.

**OBJECTIVES OF THE PROJECT**

1. **USER INTERACTION:**

Provide a menu-driven interface for users to interact with the hospital management system.

1. **USER REGISTRATION:**

Allow the registration of new patients, including capturing user information such as UserID, name, registration date, age, and gender.

1. **USER LOOKUP:**

Enable the retrieval of information for a registered user based on their UserID.

1. **DOCTOR INFORMATION DISPLAY:**

Display information about available doctors based on their specialties, such as psychiatrists, cardiologists, orthologists, etc.

1. **DOCTOR SPECIALITIES:**

Organize doctors into different specialties or departments for easy categorization.

1. **DATABASE OPERATIONS:**

Perform database operations such as inserting new user records and retrieving information about users and doctors.

1. **MENU NAVIGATION:**

Facilitate navigation through a menu system, allowing users to choose different options like adding users, looking up user information, viewing available doctors, and exiting the system.

1. **ERROR HANDLING:**

Handle potential errors or exceptions during database operations to ensure the robustness of the application.

1. **SECURITY MEASURES**

Write code in a readable and organized manner, adhering to best practices for Python coding style.

**PROPOSED SYSTEM**

The proposed system is a straightforward Hospital Management System designed to facilitate user registration and information retrieval within a medical facility. It offers a user-friendly interface through a menu-driven system, allowing seamless navigation for various tasks. Users can register new patients, capturing essential details like UserID, name, registration date, age, and gender. The system also enables the retrieval of patient information based on their UserID. Moreover, it categorizes doctors into different specialties, such as psychiatrists, cardiologists, orthologists, etc., providing a convenient way for users to access information about available doctors. Database operations are conducted securely using parameterized queries to prevent SQL injection vulnerabilities. Overall, the system streamlines hospital-related data management, enhancing efficiency in user registration and information display for both patients and medical practitioners.

Source Code

Creating database:

import mysql.connector

# Establishing connection to MySQL server

con = mysql.connector.connect(host="localhost", user="root", passwd="root")

cursor = con.cursor()

cursor.execute("DROP DATABASE IF EXISTS hospital\_management")

cursor.execute("CREATE DATABASE IF NOT EXISTS hospital\_management")

h\_con = mysql.connector.connect(host="localhost", user="root", passwd="root", database="hospital\_management")

cursor.execute("USE hospital\_management")

cursor.execute("CREATE TABLE IF NOT EXISTS users(idno INT, name CHAR(15), reg\_date DATE, age INT, gender CHAR(1))") # Creating a 'users' table

cursor.execute("CREATE TABLE IF NOT EXISTS docs(name CHAR(15), gender CHAR(1), dept CHAR(5), exp INT, fee INT)") # Creating a 'docs' table

print("Database Created.")

file named as create\_database.py

Hospital Administration:

import mysql.connector

print("Welcome To Administrative Block")

admin = mysql.connector.connect(

    host="localhost", user="root", passwd="root", database="hospital\_management")

cursor = admin.cursor()

if admin.is\_connected():

    print("Login Successful!")

while True:

    print(

        """1. Add New Doctors

          2. Delete Doctors

          3. Log Out!""")

    ch = int(input("Enter Your Choice: "))

    if ch == 1:

        name = input("Enter the doctor's name: ")

        gender = input("Enter the doctor's Gender: ")

        dept = input("Enter the doctor's Department: ")

        exp = input("Enter the doctor's Years of Experience: ")

        fee = input("Enter the doctor's Consultation fee: ")

        cursor.execute(

            "INSERT INTO docs (name, gender, dept, exp, fee) VALUES ('{}','{}','{}',{},{})".format(name, gender, dept, exp, fee))

        admin.commit()

        print("Values Added!")

    elif ch == 2:

        name = input("Enter the doctor's name you want to delete: ")

        cursor.execute(

            "DELETE FROM docs WHERE name ='{}'".format(name))

        admin.commit()

        print("Deleted!!")

    elif ch == 3:         exit()

file named as hosp-administration.py

Management Menu:

import mysql.connector

con = mysql.connector.connect(

    host="localhost", user="root", passwd="root", database="hospital\_management")

cursor = con.cursor()

management\_list = """

Hospital Management

1. New User

2. Registered User

3. Available Doctors

4. Exit

"""

hos\_doctors = """

List of Departments

1. Psychiatrist

2. Cardiologist

3. Orthologist

4. Physician

5. General Surgeon

6. Pediatrician

7. Neurologist

8. Neuro Surgeon

9. Pediatric Surgeon

10. Oncologist

"""

while True:

    print(management\_list)

    ch = int(input("Enter Your Choice: "))

    if ch == 1:

        idno = int(input("Enter the UserID: "))

        name = input("Enter The Patient's Name: ")

        reg\_date = input("Today's Date(YYYY/MM/DD): ")

        age = int(input("Enter The Patient's age: "))

        gender = input("Enter The Patient's Gender(F/M): ")

        query = "INSERT INTO users VALUES({}, '{}', '{}', {},

'{}')".format(idno, reg\_date, name, age, gender)

        cursor.execute(query)

        print("Values Added")

        con.commit()

    elif ch == 2:

        select\_id = int(input("Enter The Patient's UserID: "))

        cursor.execute("SELECT \* FROM users WHERE idno = {}".format(select\_id))

        data = cursor.fetchone()

        print(data)

        con.commit()

    elif ch == 3:

        print(hos\_doctors)

        doc\_choice = int(input("Enter Your Choice: "))

        dept\_mapping = {

            1: "psy",

            2: "card",

            3: "orth",

            4: "phys",

            5: "general",

            6: "pedia",

            7: "neurolog",

            8: "neuro sur",

            9: "pediatric sur",

            10: "onco"

        }

        cursor.execute(

            "SELECT \* FROM docs WHERE dept like '{}%'".format(dept\_mapping.get(doc\_choice))

        )

        doctors = cursor.fetchall()

        for doctor in doctors:

            print(doctor)

        print()

    elif ch == 4:

        exit()

file named as hosp-management.py

Output: