

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Dept. of Computer Science Faculty of Science and Technology

CSC2210: OBJECT ORIENTED PROGRAMMING 2

Summer 2024-2025

Section: [H]

Group No: 07

Project Report On

Project Name [Family Health Manager]

Supervised By

Tofayet Sultan

Submitted By:

Name	ID
Shahriar Riaj	23-52872-2
Faradiva Haque Tithi	22-48513-3

CO2: Display and verify the mean of a real-life Project using the concepts of C# Graphical User Interface based environment with database integration to depict a desktop-based application.

Assessment Criteria	Not Attended/ Incorrect (0)	Inadequate (1-2)	Average (3)	Good (4)	Excellent (5)
Evaluation Criteria	Evaluation Definition				Total =
Requirement fulfillment	Properly dem functional re Programming				
Validation	Ensuring the a forms in their				
Verification	Identifying if proper function				

INTRODUCTION

The Family Health Manager System is a software designed to efficiently manage health-related data for individuals and their families. It allows users to track and organize information such as medication schedules, vaccination records, and blood donation statuses, ensuring proactive health management.

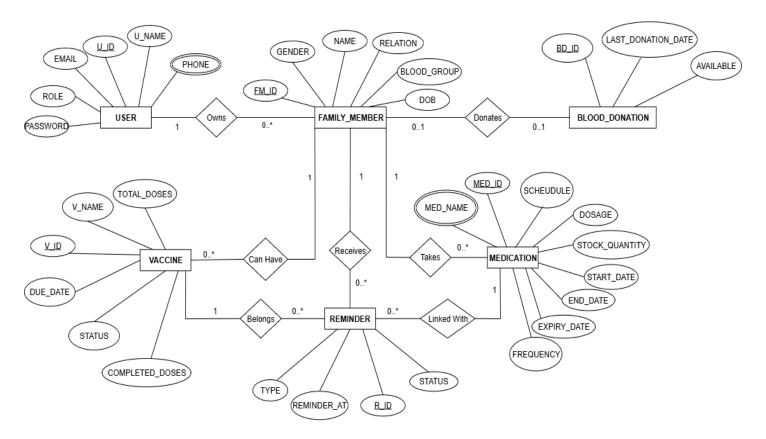
The system enables users to create profiles, add family members, and store their health details, including medication, vaccination, and blood donation records. Key features include adding, updating, and deleting family members, as well as tracking medications and vaccinations. The blood donation feature helps monitor donation status and availability.

The database is structured with several tables, including:

- User Table: Stores user details (name, email, password, role).
- Family Member Table: Manages family member information (name, relation, gender, blood group).
- **Medication Table**: Tracks medication data (name, dosage, schedule, stock).
- Vaccination Table: Manages vaccination status and doses.
- **Blood Donation Table**: Records donation details and availability.

The system's interface is simple and intuitive, ensuring easy navigation. By consolidating health tracking in one platform, the Family Health Manager System enhances family health management. It was developed with a focus on functionality, security, and user experience, and is designed for future scalability.

ER DIAGRAM

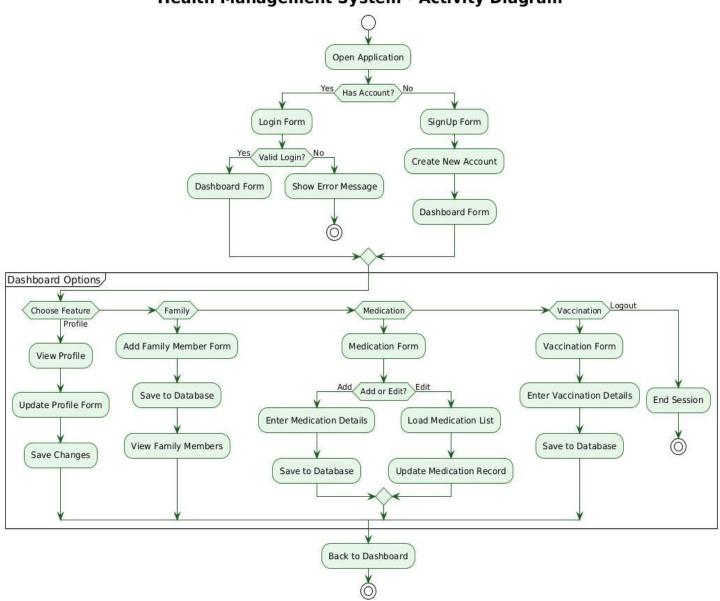


FINALIZATON TABLE

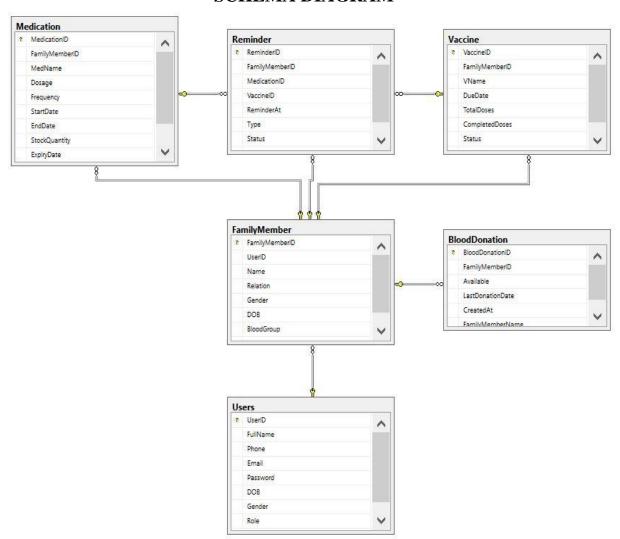
- 1) UID, UNAME, PHONE, PASSWORD, ROLE, EMAIL. [User]
- 2) FMID, GENDER, NAME, RELATION, BLOODGROUP, DOB, UID (FK). [Own]
- 3) FMID, GENDER, NAME, RELATION, BLOODGROUP, DOB. [Family Member]
- 4) VID, VNAME, DUEDATE, TOTALDOSES, STATUS, COMPLETEDDOSES, FMID (FK). [Has]
- 5) VID, VNAME, DUEDATE, TOTALDOSES, STATUS, COMPLETEDDOSES. [Vaccine]
- 6) RID, STATUS, TYPE, REMINDERAT, VID (FK). [Belong]
- 7) BDID, LASTDONATIONDATE, AVAILABLE. [Blood Donation]
- 8) FMID, BDID (FK). [Donate]
- 9) RID, STATUS, TYPE, REMINDERAT, FMID (FK). [Receive]
- 10) <u>MEDID</u>, MEDNAME, SCHEDULE, DOSAGE, STOCKQUANTITY, STARTDATE, ENDDATE, EXPIRYDATE, FREQUENCY, FMID (FK). [Take]
- 11) <u>MEDID</u>, MEDNAME, SHEDULE, DOSAGE, STOCKQUANTITY, STARTDATE, ENDDATE, EXPIRYDATE, FREQUENCY. [Medication]
- 12) RID, STATUS, TYPE, REMINDERAT, MEDID (FK). [Linked]

ACTIVITY DIAGRAM

Health Management System - Activity Diagram



SCHEMA DIAGRAM



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FEATURES

• User Management

- User login, signup, and password reset.
- Role-based access (Admin/User).

• Family Member Management

- Add, update, and delete family members.
- Track details like name, gender, relation, and blood group.

• Medication Tracking

- Add and manage medication schedules.
- Track medication dosage, frequency, and stock.

• Vaccination Management

- Manage vaccination schedules and status (pending/completed).
- Track doses and upcoming vaccines.

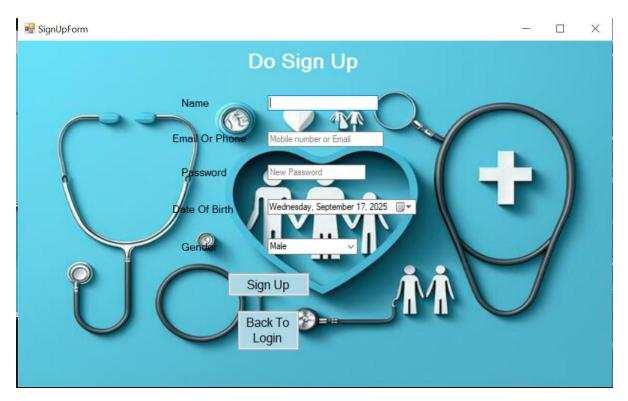
• Blood Donation Management

- Track blood donation status and last donation date.
- Monitor eligibility for future donations.

DESIGN OF FAMILY HEALTH MANAGER PROJECT



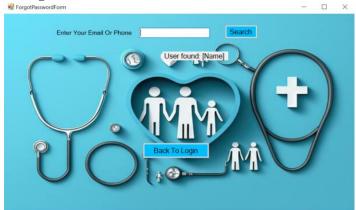
2.Sign Up Page



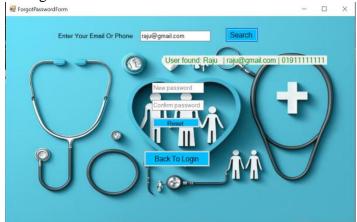
3.Confirm Sign Up



4.Forget Password



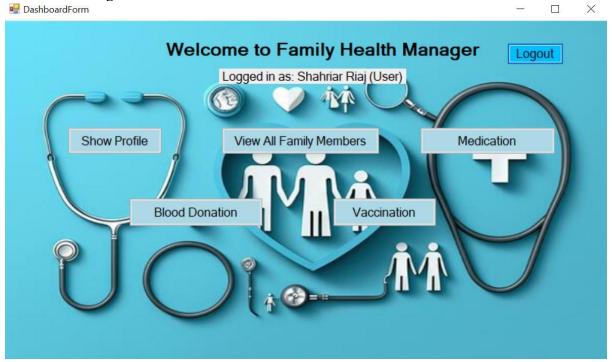
5.Forget Password Work



6.Login Confirm



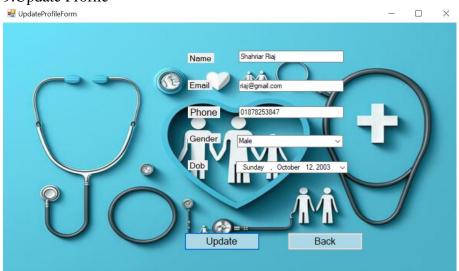
7.Dashboard Page



8. Show Profile Page



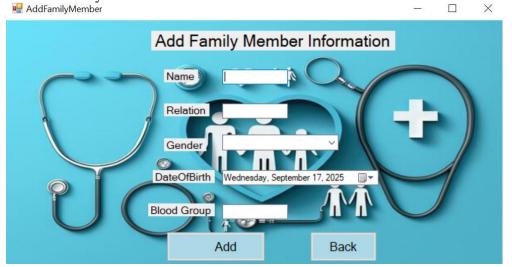
9. Update Profile



10. View Family Member Page



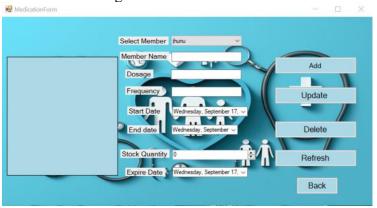
11.Add Family Member



12.Add Family Member Work

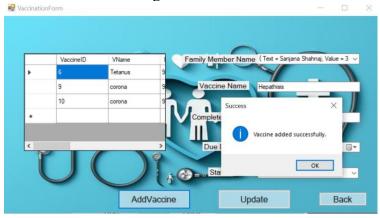


13. Medication Page

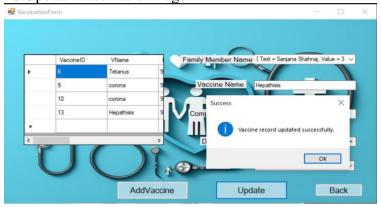




15.Add Vaccination Page

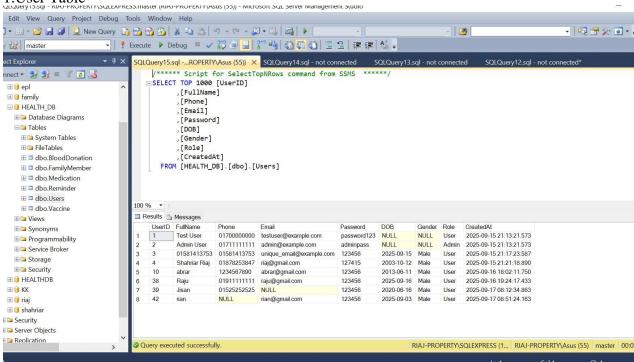


16.Update Vaccination Page

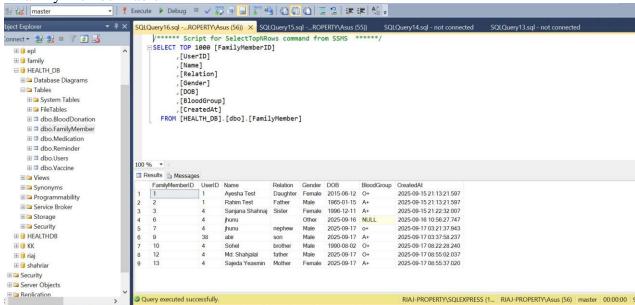


SQL TABLE

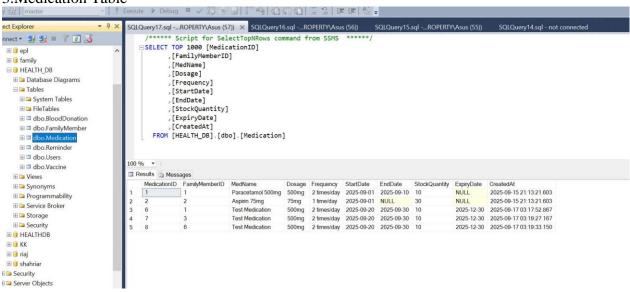




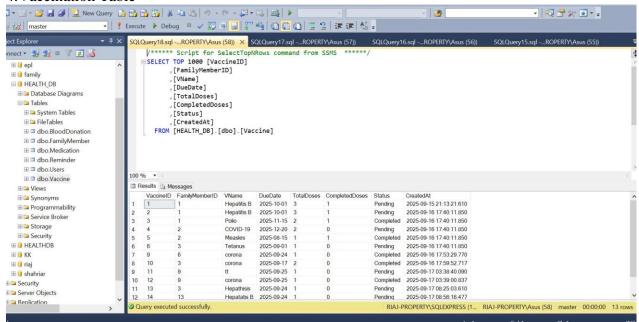
2.Family Member Table



3. Medication Table



4. Vaccination Table



CONCLUSION

The Family Health Manager System is an easy-to-use software designed to help individuals and families manage their health information. It includes features such as user accounts, family member management, tracking of medications, vaccination schedules, and blood donation status.

This system makes it easier to organize and monitor important health details in one place, helping users stay on top of their health. The software allows users to add, update, or delete family members, keep track of medicines, and set reminders for upcoming vaccinations or blood donations.

The system also includes strong security features like user login and password protection to keep personal information safe. It's designed to be flexible, so more features can be added in the future, such as a mobile version or integration with other health management tools.

In conclusion, the Family Health Manager System successfully meets its goals of providing a simple yet effective way to track and manage health information. It is built using C# and integrates well with a database, making it a useful tool for families to manage their health data.

GitHub Project Link https://github.com/riajshahriar76-oss/OOP2.git