Clinic Assistance System

1. Basic Information

1.1 Purpose

In present times, all major platforms and system are being digitize at a faster pace to take the numerous advantages Digital systems provides many benefits over conventional system like saving time, money, labor and many other benefits.

A database management system can provide countless advantages over conventional method of keeping files and folders. So, given that a person has a Database Management software dedicated to his personal needs, he can make his work efficient.

Digitizing the entire process of transaction in a clinic, will be very advantageous to any Doctor. With user-friendly GUI, this software can effectively replace paper based systems or old digital system, offering assistance as per the doctor's need.

1.2 Product Scope

Clinic Assistance System is a user-friendly Clinic management system focused on effective database management and presentation along with facility to create Cases, prescriptions and bills with automated assistance provided by the system to make the process efficient. With little modification, this system can be made as per the requirement for any Doctor for managing the clinic's documents.

2. Overall Description

2.1 Product Perspective

This product is new, self-contained product. This system performs all the process required and does not depend on any other system. More over the Database Engine used by the system is MySQL DBMS which is also a part of the system.

2.2 Product Functions

Clinic Assistance System requires Doctor to login. It handles the following function:

- 1. Register a Family
 - a. Register Family Members
- 2. Create Case
 - a. Taking Patient Complains
 - b. Doctor describes the diagnosed disease
 - c. Issuing Prescription
 - d. Printing bill if required
- 3. Can Modify the readymade database available for the system from which it offer assistance.
- 4. Generate analysis as per the statistics available in the database.

2.3 User Classes and Characteristics

The sure of the product is only one which is Doctor itself and has all the privileges of the admin. However, the user will be warned before making some sensitive changes to the system.

2.4 Operating Environment

The software will operate on a Desktop/Laptop having windows version of 8.0 or above as an operating system. A printer will be needed for printing bill.

2.5 Design and Implementation Constraints

The system can be deployed at only one fix location, the reason behind it is local deployment of database.

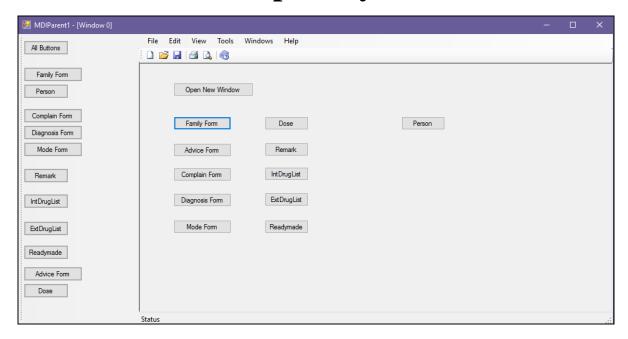
2.6 User Documentation

No document will be given to the client, but a reference https://www.tutorialspoint.com/mysql/ will be recommended if the client wishes to explore the database out of GUI convention.

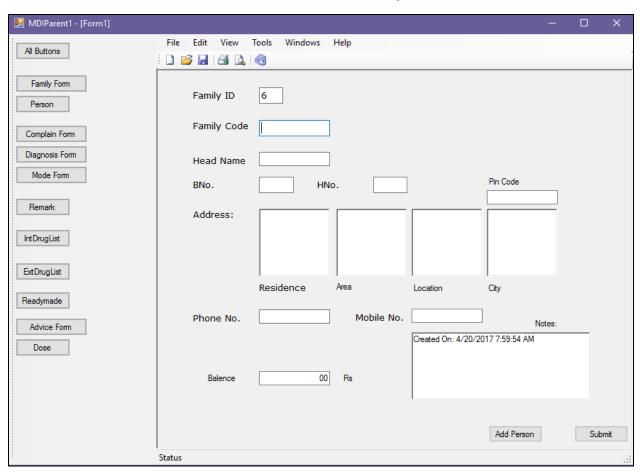
2.7 Assumptions and Dependencies

It is assumed that the doctor will have list of medicines and medical problems which will be entered into the database for proper and efficient utilization of the system.

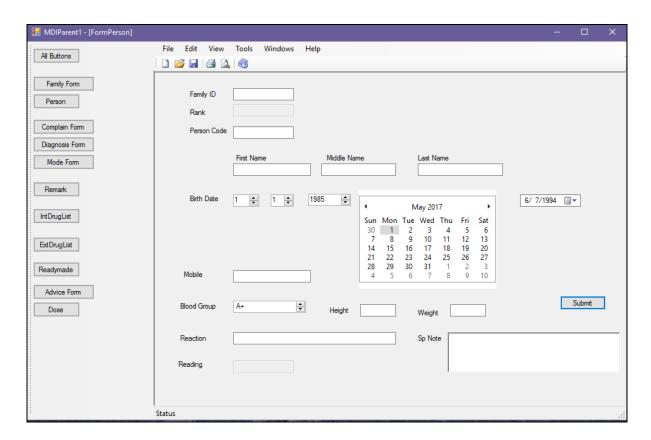
Sample Layout



Create New Family Form



Add new Person Form



Overall Database



Family Tabel

#	Name	Туре	Collation	Attributes	Null	Default
1	FamilyId 🔑	mediumint(9)		UNSIGNED	No	None
2	FamilyCode	varchar(4)	latin1_swedish_ci		No	None
3	HeadName	varchar(40)	latin1_swedish_ci		No	None
4	BNo	tinyint(3)		UNSIGNED	Yes	NULL
5	HNo	tinyint(3)		UNSIGNED	Yes	NULL
6	Residence	varchar(40)	latin1_swedish_ci		Yes	NULL
7	Area	varchar(40)	latin1_swedish_ci		Yes	NULL
8	Location	varchar(40)	latin1_swedish_ci		Yes	NULL
9	City	varchar(40)	latin1_swedish_ci		Yes	NULL
10	PinCode	mediumint(8)		UNSIGNED	Yes	NULL
11	Phone	bigint(20)		UNSIGNED	Yes	NULL
12	Mobile	bigint(20)		UNSIGNED	Yes	NULL
13	Balence	int(11)			No	None
14	Note	text	latin1_swedish_ci		Yes	NULL

Person Tabel

#	Name	Туре	Collation	Attributes	Null	Default
1	Familyld	mediumint(9)		UNSIGNED	No	None
2	Rank	mediumint(8)		UNSIGNED	Yes	NULL
3	PersonCode 🔑	mediumint(8)		UNSIGNED	No	None
4	FirstName	varchar(40)	latin1_swedish_ci		No	None
5	MiddleName	varchar(40)	latin1_swedish_ci		Yes	NULL
6	LastName	varchar(40)	latin1_swedish_ci		Yes	NULL
7	BDate	date			Yes	NULL
8	BloodGroup	enum('O+', 'O-', 'A+', 'A-', 'B+', 'B-', 'AB+', 'A	latin1_swedish_ci		Yes	NULL
9	Height	decimal(10,5)		UNSIGNED	Yes	NULL
10	Weight	decimal(10,5)		UNSIGNED	Yes	NULL
11	Reaction	varchar(100)	latin1_swedish_ci		Yes	NULL
12	Reading	varchar(100)	latin1_swedish_ci		Yes	NULL
13	Mobile	bigint(20)		UNSIGNED	Yes	NULL
14	SpNote	text	latin1_swedish_ci		Yes	NULL

OPD Tabel

#	Name	Туре	Collation	Attributes	Null	Default
1	CaseNo 🔑	mediumint(8)		UNSIGNED	No	None
2	PersonCode	mediumint(9)		UNSIGNED	No	None
3	DateTime	datetime			No	None
4	Diagnosis	varchar(250)	latin1_swedish_ci		Yes	NULL
5	Complain	varchar(250)	latin1_swedish_ci		Yes	NULL
6	Remark	varchar(50)	latin1_swedish_ci		Yes	NULL
7	Mode	varchar(10)	latin1_swedish_ci		Yes	NULL
8	Total	mediumint(8)		UNSIGNED	Yes	NULL
9	Credit	mediumint(8)		UNSIGNED	Yes	NULL
10	Advice	varchar(200)	utf8_general_ci		Yes	NULL

Prescibe Tabel

#	Name	Туре	Collation	Attributes	Null	Default
1	CaseNo	mediumint(8)		UNSIGNED	No	None
2	IntExt	tinyint(1)			No	None
3	Drug	varchar(50)	latin1_swedish_ci		No	None
4	Company	varchar(50)	latin1_swedish_ci		Yes	NULL
5	Dose	varchar(50)	latin1_swedish_ci		Yes	NULL
6	TabletCount	mediumint(8)		UNSIGNED	Yes	NULL