

# 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

The screenshot shows the MDIParent1 - [Window 0] application window. It features a menu bar with File, Edit, View, Tools, Windows, and Help. A toolbar with icons for file operations is located below the menu. On the left, a vertical list of buttons includes 'All Buttons', 'Family Form', 'Person', 'Complain Form', 'Diagnosis Form', 'Mode Form', 'Remark', 'IntDrugList', 'ExtDrugList', 'Readymade', 'Advice Form', and 'Dose'. The main area contains a grid of buttons: 'Open New Window', 'Family Form' (highlighted with a blue border), 'Dose', 'Person', 'Advice Form', 'Remark', 'Complain Form', 'IntDrugList', 'Diagnosis Form', 'ExtDrugList', 'Mode Form', and 'Readymade'. A 'Status' bar is at the bottom.

## Create New Family Form

The screenshot shows the MDIParent1 - [Form1] application window. It features a menu bar with File, Edit, View, Tools, Windows, and Help. A toolbar with icons for file operations is located below the menu. On the left, a vertical list of buttons includes 'All Buttons', 'Family Form', 'Person', 'Complain Form', 'Diagnosis Form', 'Mode Form', 'Remark', 'IntDrugList', 'ExtDrugList', 'Readymade', 'Advice Form', and 'Dose'. The main area contains the following fields and controls:


- Family ID:
- Family Code:
- Head Name:
- BNo.:  HNo.:  Pin Code:
- Address: Four large text input boxes arranged horizontally.
- Residence:  Area:  Location:  City:
- Phone No.:  Mobile No.:
- Balance:  Rs
- Notes: A text area containing 'Created On: 4/20/2017 7:59:54 AM'.
- Buttons: 'Add Person' and 'Submit' at the bottom right.

A 'Status' bar is at the bottom.


## Add new Person Form



# Family Tabel

#	Name	Type	Collation	Attributes	Null	Default
<input type="checkbox"/> 1	<u>FamilyId</u> 	mediumint(9)		UNSIGNED	No	None
<input type="checkbox"/> 2	<u>FamilyCode</u>	varchar(4)	latin1_swedish_ci		No	None
<input type="checkbox"/> 3	<u>HeadName</u>	varchar(40)	latin1_swedish_ci		No	None
<input type="checkbox"/> 4	<u>BNo</u>	tinyint(3)		UNSIGNED	Yes	NULL
<input type="checkbox"/> 5	<u>HNo</u>	tinyint(3)		UNSIGNED	Yes	NULL
<input type="checkbox"/> 6	<u>Residence</u>	varchar(40)	latin1_swedish_ci		Yes	NULL
<input type="checkbox"/> 7	<u>Area</u>	varchar(40)	latin1_swedish_ci		Yes	NULL
<input type="checkbox"/> 8	<u>Location</u>	varchar(40)	latin1_swedish_ci		Yes	NULL
<input type="checkbox"/> 9	<u>City</u>	varchar(40)	latin1_swedish_ci		Yes	NULL
<input type="checkbox"/> 10	<u>PinCode</u>	mediumint(8)		UNSIGNED	Yes	NULL
<input type="checkbox"/> 11	<u>Phone</u>	bigint(20)		UNSIGNED	Yes	NULL
<input type="checkbox"/> 12	<u>Mobile</u>	bigint(20)		UNSIGNED	Yes	NULL
<input type="checkbox"/> 13	<u>Balance</u>	int(11)			No	None
<input type="checkbox"/> 14	<u>Note</u>	text	latin1_swedish_ci		Yes	NULL

# Person Tabel

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

## OPD Tabel

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

## Prescribe Tabel

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