



# Hospital Rooms database and it's interface

# **Prepared For**

Professor/ Basil Tawfik
Eng/ Esraa Ragaa

# By

Asmaa Mourad Mahmoud
Omnia Mahmoud Abd-El Kader
Laila Mohamed Abbas
Moaz Khairy Hussien
Youssef Sayed Youssef

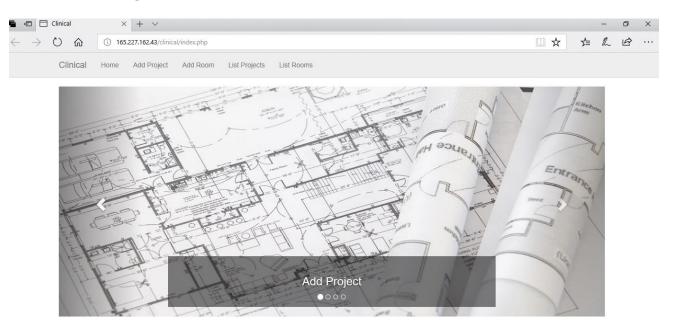
#### **Contents**

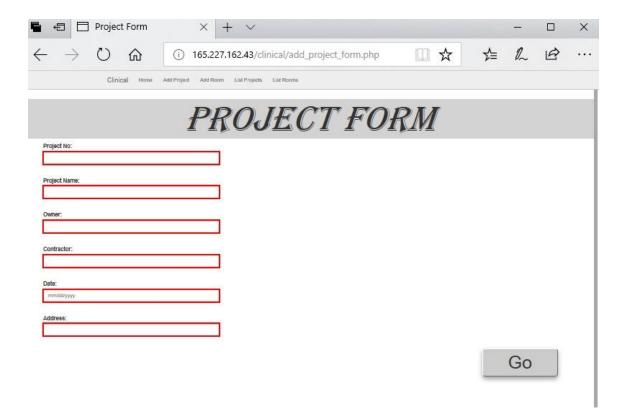
1.	Program Explanation	3
2.	Database	. 10
3.	Link for Interface Program	. 11

Room datasheet system implemented here ensures effective communication between customer needs, designer specifications and the responsible authority for building the hospital. The implemented interface program offers different stages for treating with creating new project, creating new room datasheet, viewing the created rooms and projects and retrieving count of objects needed as final result. Room data sheet database gives a detailed description of all the finishes, fixtures and fittings, mechanical and electrical requirements that will be required for each room in a project. It's database created by MySQL and the interface created as a server it's back end by PHP and frontend by HTML.

## 1. Program Explanation

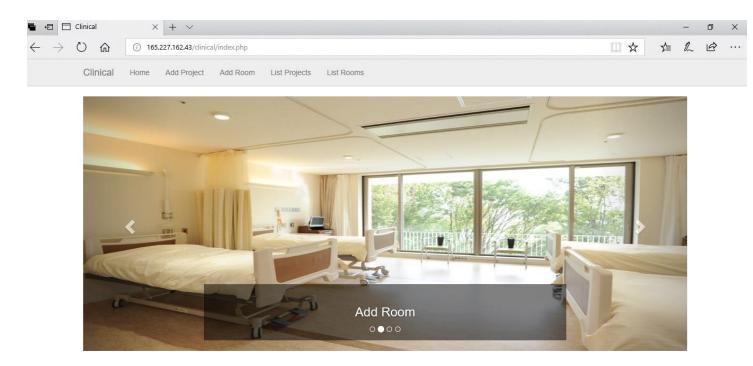
### 1.1Add Project





Here the details of new project are added from it's name, owner, contractor, date of contraction beginning, address of hospital and project number.

#### 1.2 Add Room



		Room	Data Shee	t × + ×
$\leftarrow$	$\rightarrow$	$\circ$	மி	① 165.227.162.43/clinical/add_room_form.php
				Clinical Home Add Project Add Room List Projects List Rooms

# ROOM DATA SHEET

☐ Natural Light/View Out

#### ► OPERATIONAL DATA Project Name: Area in m: Hours of use: Days of use: Function: Occupancy normal: Occupancy max: ► ARCHITECTURE Door Width: O Standard O Wheelchair O Stretcher O Bed O Interior O Operable O Standard O Special O Glassware Draining O Case Notes O Stationary O Gas Cylinder O Mop/Broom O Bedpan O Clothes O Equipment, celling mounted O Equipment, wall mounted O Equipment, wall mounted O Equipment, wall mounted Boards: O Chalkboard O Whiteboard O Magnetio O Cork O Key O Other: Wood Veneer Panels OBulletin Tracks: O Bed Cubiole O Shower O LV Ocurtain Raller O Grab O Towel Mirrors: O Size O Other Celling Finishes:

Beecksl Celling Conditions | Local Scavenging System | Speech Privacy Isolation | Glazed Partitions/Doors | Laminar Flow Cabinet

Equipment | Refrigerated | Wheelchairs' Stretchers | Medications | Narcotics | Photo Equipment | Radiology Cascettes | Solutions | Supplies

☐ Washable ☐ Special

Resilient Carpet Chemical Resistant Non-skid

Fume Cabinet for Chemical Fume Cabinet for Radioactive Fume Cabinet for Biohazard Exhaust Canopy

Noise (insulete walls) Vibration Radiation Shielding Magnetic Field Noxious Gas/Vapour Corrosion Static Electricity

☐ Washable ☐ Water Impervious ☐ Special Protection

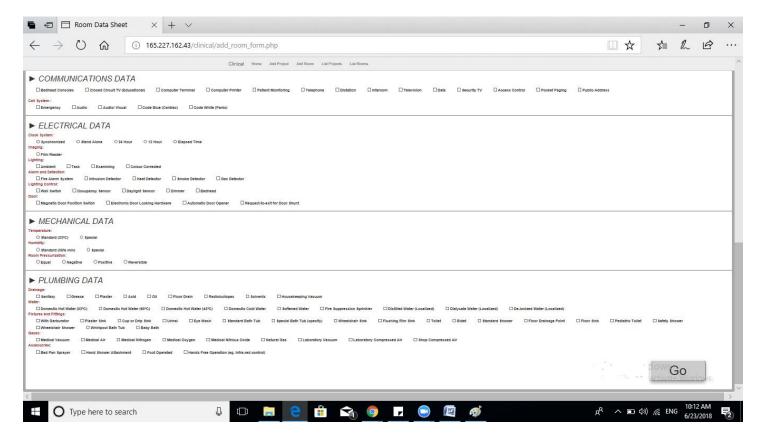
Floor Finishes:

☐ Water Impervious
II Finishes:
☐ Standard ☐ W

☐ Special Floor Conditions

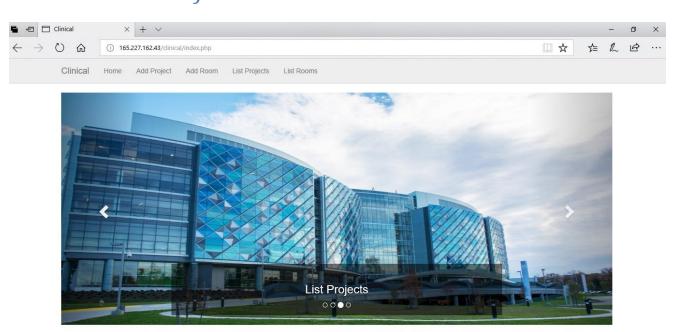
Special Storage Requirements:

☐ Warming Cabinet



This stage allows the user to fill in room data from wide variety of options for operational, architecture, communications, electrical, mechanical and plumbing data and then after clicking go, they're automatically saved in the database.

### 1.3 List Projects



# PROJECTS LIST

Project Name	Actions
District Hospital and Health Centre	View - Delete - Information

This phase Projects List give three options to the user first to view the saved data as follows:

	Clinical Home Add Project Add Room List Projects List Rooms					
	P	ROJE	CT D	ATX	4	
Project Number	Project Name	Owner	Contractor	Date	Address	Actions
410	District Hospital and Health Centre	Asmaa Mourad	Laila Abbas	2018-04-10	741 Centre Street, Burns Lake	Delete
	PK	COJEC	I'S H		<b>15</b>	
ID			Actions			
101 corridor			View - Delete			
101A Lobby			View - Delete			
106A Medical Records			View - Delete			
115 Nurse Practitioner Office			View - Delete			
116A Clean Linen			View - Delete			
117 Physician/Staff Change			View - Delete			
287 Lockers			View - Delete			

Second if you want to delete the whole project database and third for the retrieval system. It gives the components numbers needed in the whole project to start asking for components prices and determine the whole cost of building. It gives also charts to make it more visible to the user each type of the components' percentage in the hospital and if you want to omit one of them from the chart and get the others relative percentage just click on it and it appears as shown:

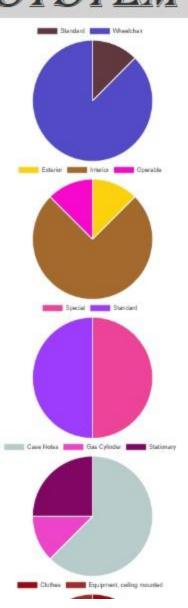
# RETRIEVAL SYSTEM

DoorWidth	Count		
Standard	1		
Wheelchair	7		

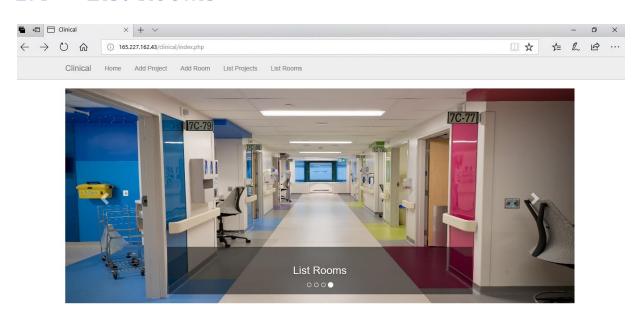
Windows	Count	
Exterior	-1	
Interior	6	
Operable	1	

CellingHeight	Count	
Special	4	
Standard	4	

Racke	Count		
Case Notes	5		
Gas Cylinder	1		
Stationary	2		



#### 1.4 List Rooms

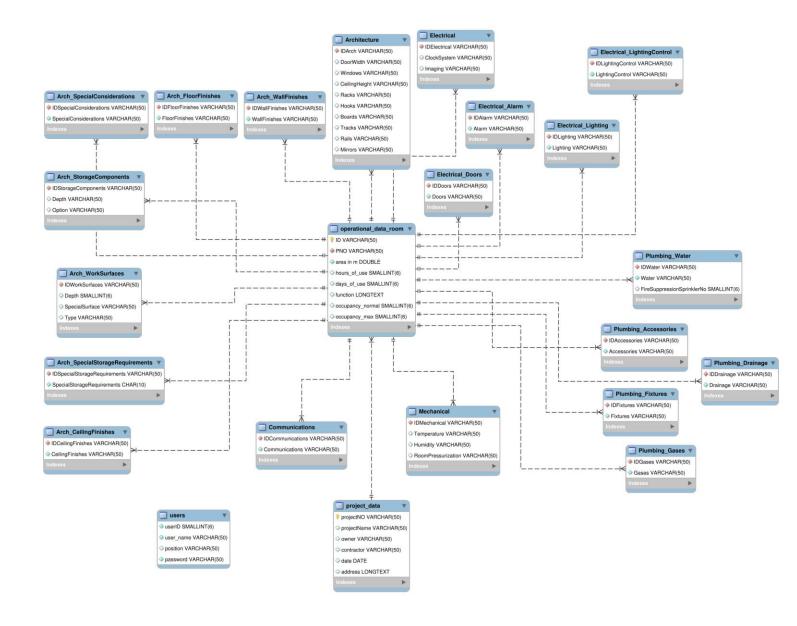


# ROOMS LIST

ID	Project Name	Actions
101 corridor	District Hospital and Health Centre	View - Delete
101A Lobby	District Hospital and Health Centre	View - Delete
106A Medical Records	District Hospital and Health Centre	View - Delete
115 Nurse Practitioner Office	District Hospital and Health Centre	View - Delete
116A Clean Linen	District Hospital and Health Centre	View - Delete
117 Physician/Staff Change	District Hospital and Health Centre	View - Delete
119A Waiting	District Hospital and Health Centre	View - Delete
	District Upenital and Upalth	

The same as the previous one but for each room separately has view and delete options.

#### 2.Database



Here is the room database showing relations between tables where data saved. The main project table (project\_data) contains the project features and related to room table (operational\_data\_room) which also has room features and in turn related to all tables having room specifications.

# 3. Link for Interface Program

http://165.227.162.43/clinical/index.php

In the end, Software is a wonderful tool that's used to make data more organized and easier to deal with. This program facilitates communication of data between different persons working on hospital construction, makes it easier to specify certain requirements without much loss in the details needed which can be forgotten by the designer and give more specific data to be easily understood by the other people reading this data.