VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi – 590 018



A Mini Project Report

"HOSPITAL MANAGEMENT SYSTEM"

Submitted in partial fulfillment of the requirement for the DBMS Laboratory with miniproject(18CSL58) of V Semester

Bachelor of Engineering in Computer Science and Engineering

Submitted By

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Department of Computer Science and Engineering



CERTIFICATE

"HOSPITAL MANAGEMENT SYSTEM" carried out by Mr.ADITYA S NIRGUND, bearing USN 1GA18CS013 a bonafide student of Global Academy of Technology, in partial fulfillment for the award of the BACHELOR OF ENGINEERING in Computer Science and Engineering from Visvesvaraya Technological University, Belagavi during the year 2020-2021. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted in the Department Library. The DBMS Mini Project report has been approved as it satisfies the academic requirements in respect of the miniproject work prescribed for the said Degree.

| Mrs. Vanishree M L Assistant Professor | Dr. Srikanta Murthy K Professor & HOD |
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| Name of the Examiners | Signature with date |
| 1. | |
| 2 | |

ABSTRACT

A system to manage the activities in a hospital:

Medical care and services (medical examinations and operations, diagnostics, laboratory services, surgery and other treatment, rehabilitation, urgent medical care etc.); non-medical care (accommodation, food for hospitalised patients etc.);

Patients request for appointment for any doctor. The details of the existing patients are retrieved by the system.

New patients update their details in the system before they request for appointment with the help of assistant. The assistant confirms the appointment based on the availability of free slots for the respective doctors and the patient is informed. Assistant may cancel the appointment at any time. It is used to storing and managing the administrator information. Administrators manage & maintain the whole system. Generating the bills.

We create super user where he can give login credentials so he can create, edit and delete the records of the hospital management system

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible and whose constant encouragement and guidance crowned our efforts with success.

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Student Name

ADITYA S NIRGUND

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION TO SQL

SQL is a database computer language designed for the retrieval and management of data in a relational database. **SQL** stands for **Structured Query Language**. SQL is Structured Query Language, which is a computer language for storing, manipulating and retrieving data stored in a relational database.

This tutorial will give you a quick start to SQL. It covers most of the topics required for a basic understanding of SQL and to get a feel of how it works. SQL is the standard language for Relational Database System.

All the Relational Database Management Systems (RDMS) like MySQL, MS Access, Oracle, Sybase, Informix, Postgres and SQL Server use SQL as their standard database language.

Here are important elements of SQL language:

- **Keywords:** Each SQL statement contains single or multiple keywords
- **Identifiers:** Identifiers are names of objects in the database, like user IDs, tables, and columns.

- **Strings:** Strings can be either literal strings or expressions with VARCHAR or CHAR data types.
- **Expressions:** Expressions are formed from several elements, like constants, SQL operators, column names, and subqueries.
- **Search Conditions:** Conditions are used to select a subset of the rows from a table or used to control statements like an IF statement to determine control of flow.
- **Special Values:** Special values should be used in expressions and as column defaults when building tables.
- Variables: Sybase IQ supports local variables, global variables, and connection-level variables.
- **Comments:** Comment is another SQL element which is used to attach explanatory text to SQL statements or blocks of statements. The database server does not execute any comment.
- **NULL Value:** Use NULL, which helps you to specify a value that is unknown, missing, or not applicable.

1.2 INTRODUCTION TO FRONT END SOFTWARE

Web development is the building and maintenance of websites; it's the work that happens behind the scenes to make a website look great, work fast and perform well with a seamless user experience.

Web developers, or 'devs', do this by using a variety of coding languages. The languages they use depends on the types of tasks they are preforming and the platforms on which they are working.

Web development skills are in high demand worldwide and well paid too – making development a great career option. It is one of the easiest accessible higher paid fields as you do not need a traditional university degree to become qualified.

A front-end dev takes care of layout, design and interactivity using HTML, CSS and JavaScript. They take an idea from the drawing board and turn it into reality.

The backend developer engineers what is going on behind the scenes. This is where the data is stored, and without this data, there would be no frontend. The backend of the web consists of the server that hosts the website, an application for running it and a database to contain the data.

The backend dev uses computer programmes to ensure that the server, the application and the database run smoothly together. This type of dev need to analyse what a company's needs are and provide efficient programming solutions. To do all this amazing stuff they use a variety of

server-side languages, like PHP, Ruby, Python and Java.

HTML

HTML is at the core of every web page, regardless the complexity of a site or number of technologies involved. It's an essential skill for any web professional. It's the starting point for anyone learning how to create content for the web. And, luckily for us, it's surprisingly easy to learn.

HTML stands for HyperText Markup Language. "Markup language" means that, rather than using a programming language to perform functions, HTML uses tags to identify different types of content and the purposes they each serve to the webpage.

CSS

CSS stands for Cascading Style Sheets. This programming language dictates how the HTML elements of a website should actually appear on the frontend of the page.

HTML provides the raw tools needed to structure content on a website. CSS, on the other hand, helps to style this content so it appears to the user the way it was intended to be seen. These languages are kept separate to ensure websites are built correctly before they're reformatted.

JavaScript

JavaScript is a more complicated language than HTML or CSS, and it wasn't released in beta form until 1995. Nowadays, JavaScript is supported by all modern web browsers and is used on almost every site on the web for more powerful and complex functionality.

JavaScript is a logic-based programming language that can be used to modify website content

and make it behave in different ways in response to a user's actions. Common uses for JavaScript include confirmation boxes, calls-to-action, and adding new identities to existing information.

1.3 PROJECT REPORT OUTLINE

The report is arranged in the following way:

Chapter 1: INTRODUCTION

Chapter 2: REQUIREMENT SPECIFICATION

Chapter 3: OBJECTIVE OF THE PROJECT

Chapter 4: IMPLEMENTATION

Chapter 5: FRONT END DESIGN

Chapter 6: TESTING

Chapter 7: RESULT

CHAPTER 2

REQUIREMENT SPECIFICATION

2.1 SOFTWARE REQUIREMENTS

Operating System : Microsoft Windows

Database : db.sqlite3

Tools: Django(Front design, Back end, Python), Html, Css, Javascript

2.2 HARDWARE REQUIREMENTS

Processor: Any Processor above 500 MHz

RAM: 2 GB

Hard Disk: 40 GB Compact Disk: NA

Input device: Keyboard and Mouse

Output device : Monitor

CHAPTER 3

OBJECTIVE OF THE PROJECT

Main objectives of a Hospital Management System

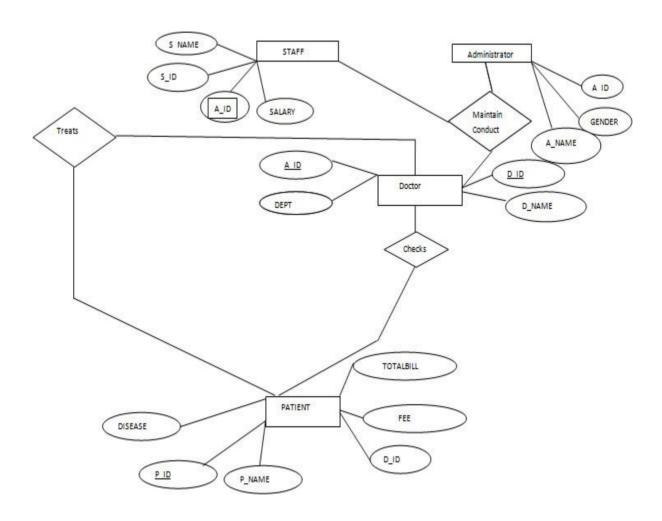
Design a system for better patient care. Reduce hospital operating costs. Provide MIS report on demand to management for better decision making. Better co-ordination among the different departments. Provide top management a single point of control.

To computerize all details regarding patient details & hospital details. Scheduling the appointment of patient with doctors to make it convenient for both. Scheduling the services of specialized doctors and emergency properly so that facilities provided by hospital are fully utilized in effective and efficient manner.

If the medical store issues medicines to patients, it should reduce the stock status of the medical store and vice-versa. The inventory should be updated automatically whenever a transaction is made. The information of the patients should be kept up to date and there record should be kept in the system for historical purposes.

CHAPTER 4 IMPLEMENTATION

4.1 ER DIAGRAM



4.2 MAPPING OF THE ER DIAGRAM TO SCHEMA DIAGRAM

Administration

| A_ID | A_NAME | GENDER |
|------|--------|--------|
| | | |
| | | |
| | | |

Doctor

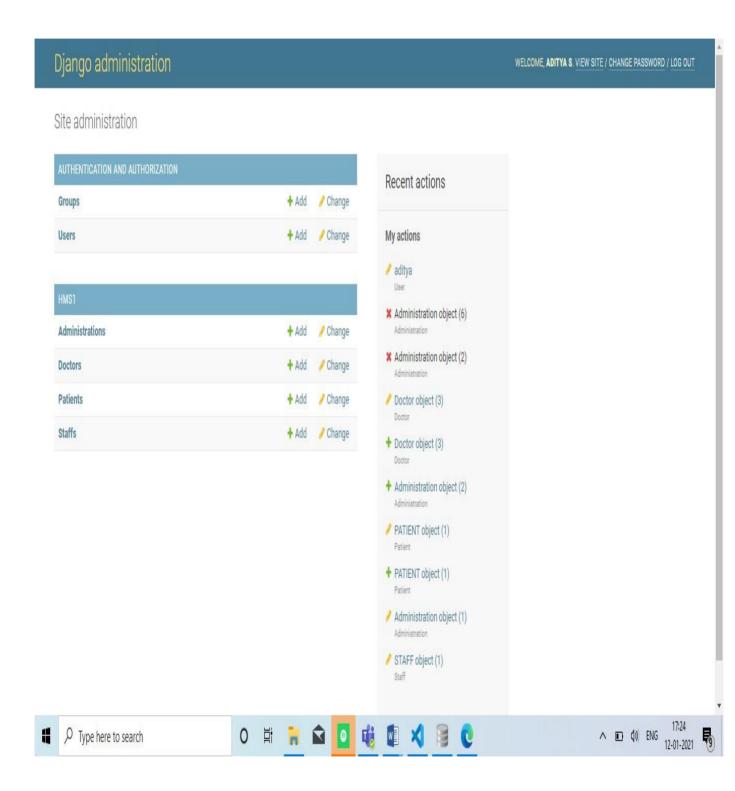
| D_ID | D_NAME | DEPT | A_ID |
|------|--------|------|------|
| | | | |

| Hospital Management System | |
|--|--|
| STAFF | |
| S_ID S_NAME SALARY A_ID | |
| PATIENT | |
| P_ID P_NAME DISEASE FEE TOTALBILL D_ID | |

auth_user (TRIGGER TABLE)

| i | pass | last_ | is_sup | user | last_ | e | is_s | is_a | date_j | first_ |
|---|------|-------|--------|------|-------|-----|------|------|--------|--------|
| c | word | login | eruser | nam | name | m | taff | ctiv | oined | name |
| | | | | e | | ail | | e | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

4.3 MAPPING OF THE ER SCHEMA TO RELATIONS



4.4 CREATION OF TABLES

Administration Table

CREATE TABLE "hms1_administration" ("A_ID" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "A_NAME" varchar(1000) NOT NULL, "GENDER" varchar(100) NOT NULL)

Doctor Table

CREATE TABLE "hms1_doctor" ("D_ID " integer

NOT NULL PRIMARY KEY AUTOINCREMENT,

"D_NAME" varchar(1000) NOT NULL, "DEPT"

varchar(100) NOT NULL, "A_ID"

REFERENCES Administration(A_ID) On DELETE CASCADE)

CREATE TABLE "hms1_staff" ("S_ID " integer NOT NULL PRIMARY KEY AUTOINCREMENT, "S_NAME" varchar(1000) NOT NULL, "SALARY" integer NOT NULL, "A_ID"

REFERENCES Administration(A_ID) On DELETE CASCADE)

PATIENT TABLE

CREATE TABLE "hms1_patient" ("P_ID " integer

NOT NULL PRIMARY KEY AUTOINCREMENT,

"P_NAME" varchar(1000) NOT NULL, "DISEASE"

varchar(100) NOT NULL, "FEE"

integer NOT NULL, "TOTALBILL" integer NOT

NULL, "D_ID" REFERENCES DOCTOR(D_ID) On DELETE CASCADE)

auth user TABLE

CREATE TABLE "auth_user" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "password" varchar(128) NOT NULL, "last_login" datetime

NULL, "is_superuser" bool NOT NULL,
"username" varchar(150) NOT NULL UNIQUE,
"last_name" varchar(150) NOT NULL, "email"
varchar(254) NOT NULL, "is_staff" bool NOT
NULL, "is_active" bool NOT NULL,
"date_joined" datetime NOT NULL, "first_name"
varchar(150) NOT NULL)

4.5 INSERTION OF TUPLES

Administration TABLE

INSERT INTO Administration VALUES(1,'Ajay','Male');

INSERT INTO Administration VALUES(3,'Anjali','Female');

INSERT INTO Administration VALUES(4,'Ajay Kumar','Male');

INSERT INTO Administration VALUES(9,'Kumar','Male');

INSERT INTO Administration VALUES(10,'Shraddha','Female');

Doctor TABLE

INSERT INTO Doctor VALUES(12,'Govind','eye',673);

INSERT INTO Doctor VALUES(122,'Cale','heart',679);

INSERT INTO Doctor VALUES(10, 'Stenz', 'eye', 671);

INSERT INTO Doctor VALUES(89, 'Sawyer', 'ear', 679);

INSERT INTO Doctor VALUES(90,'Carol Finn','eye',89);

Staff TABLE

INSERT INTO STAFF VALUES(189,'Rama',10800,9);

INSERT INTO STAFF VALUES(145,'Krishna T',10800,15);

INSERT INTO STAFF VALUES(167,'Rama A S',10800,96);

INSERT INTO STAFF VALUES(1891,'Shobha',10800,971);

INSERT INTO STAFF VALUES(122,'Ted',10800,978);

PATIENT TABLE

INSERT INTO PATIENT VALUES(789,'Aditi','Lung Cancer',800,780,154);

INSERT INTO PATIENT VALUES(79,'Aditya G','Skin Cancer',1800,780,152);

INSERT INTO PATIENT VALUES(457,'Shekhar,'Heart surgery',11800,12780,154);

INSERT INTO PATIENT VALUES(767, 'Vivek', 'Colour blindness', 1800, 1780, 167);

INSERT INTO PATIENT

VALUES(709,'Golu','Leukemai',11800,11780,194);

| auth_user TABLE |
|--|
| python manage.py createsuperuser |
| Username (leave blank to use 'npsrinivas'): nirgund |
| Email address: nirgund.ps@gmail.com |
| Password: |
| Password (again): |
| This password is too short. It must contain at least 8 characters. |

This password is too common.

| Hospital Management System |
|--|
| Bypass password validation and create user anyway? [y/N]: y |
| Superuser created successfully. |
| python manage.py createsuperuser |
| Username (leave blank to use 'npsrinivas'): aravindan |
| Email address: aravindanspark@gmail.com |
| Password: |
| Password (again): |
| This password is too short. It must contain at least 8 characters. |
| This password is too common. |

| Bypass password validation and create user anyway? [y/N]: y |
|--|
| Superuser created successfully. |
| python manage.py createsuperuser |
| Username (leave blank to use 'npsrinivas'): aditya |
| Email address: adityasnirgund@gmail.com |
| Password: |
| Password (again): |
| This password is too short. It must contain at least 8 characters. |

| Hospital Management System |
|---|
| This password is too common. |
| Bypass password validation and create user anyway? [y/N]: y |
| Superuser created successfully. |
| python manage.py createsuperuser |
| Username (leave blank to use 'npsrinivas'): vanishreearun |
| Email address: vanishreearun@gmail.com |
| Password: |
| Password (again): |

| Hospital Management System |
|--|
| Password (again): |
| |
| |
| |
| This password is too short. It must contain at least & characters |
| This password is too short. It must contain at least 8 characters. |
| |
| |
| |
| This password is too common. |
| |
| |
| |
| Bypass password validation and create user anyway? [y/N]: y |
| Bypass password varidation and create user anyway: [y/1v]. y |
| |
| |
| |
| Superuser created successfully. |
| |
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ROW

4.6 CREATION OF TRIGGERS

CREATE TRIGGER insertA_ID AFTER INSERT ON `Administration` FOR EACH ROW

INSERT INTO logs VALUES (null, NEW.A_ID, "Inserted", NOW());
CREATE TRIGGER updateA_ID AFTER INSERT ON ` Administration ` FOR EACH

INSERT INTO logs VALUES (null, NEW. A_ID, "Updated", NOW());
CREATE TRIGGER deleteA_ID BEFORE INSERT ON `Administration `FOR EACH
ROW INSERT INTO logs VALUES (null, OLD. A_ID, "Deleted", NOW());

CREATE TRIGGER insertD_ID AFTER INSERT ON `Doctor` FOR EACH ROW INSERT INTO logs VALUES (null, NEW.D_ID, "Inserted", NOW());
CREATE TRIGGER updateD_ID AFTER INSERT ON `Doctor` FOR EACH ROW INSERT INTO logs VALUES (null, NEW. D_ID, "Updated", NOW());
CREATE TRIGGER deleteD_ID BEFORE INSERT ON `Doctor` FOR EACH ROW INSERT INTO logs VALUES (null, OLD. D_ID, "Deleted", NOW());

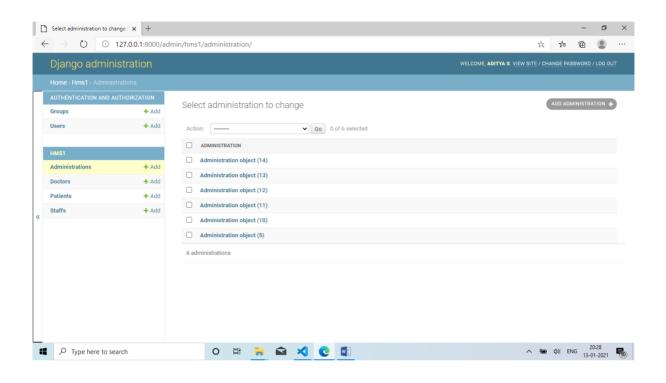
CREATE TRIGGER insertS_ID AFTER INSERT ON `STAFF` FOR EACH ROW INSERT INTO logs VALUES (null, NEW.S_ID, "Inserted", NOW());
CREATE TRIGGER updateS_ID AFTER INSERT ON `STAFF` FOR EACH ROW INSERT INTO logs VALUES (null, NEW. S_ID, "Updated", NOW());
CREATE TRIGGER deleteS_ID BEFORE INSERT ON 'STAFF' FOR EACH ROW INSERT INTO logs VALUES (null, OLD. S_ID, "Deleted", NOW());

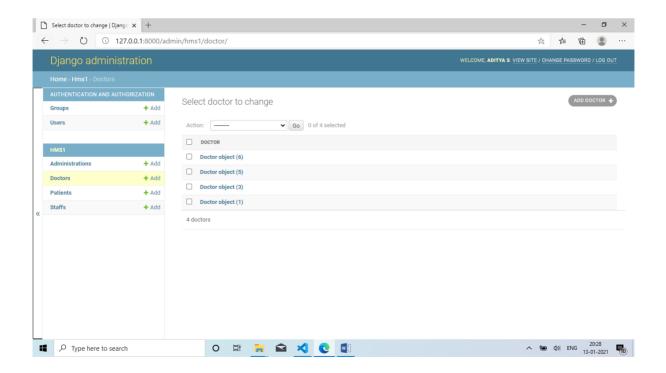
CREATE TRIGGER insertP_ID AFTER INSERT ON `PATIENT` FOR EACH ROW INSERT INTO logs VALUES (null, NEW.P_ID, "Inserted", NOW());

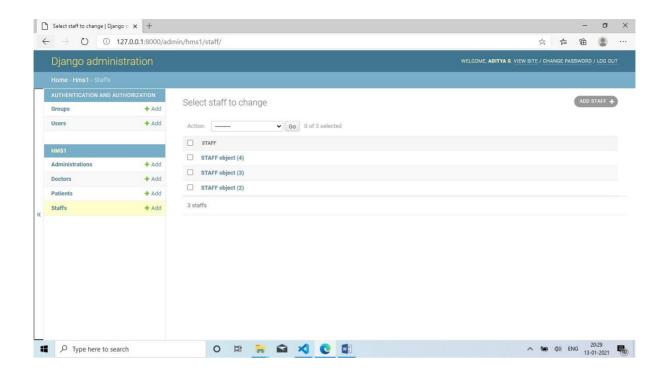
CREATE TRIGGER updateP_ID AFTER INSERT ON ` PATIENT ` FOR EACH ROW INSERT INTO logs VALUES (null, NEW. P_ID, "Updated", NOW());

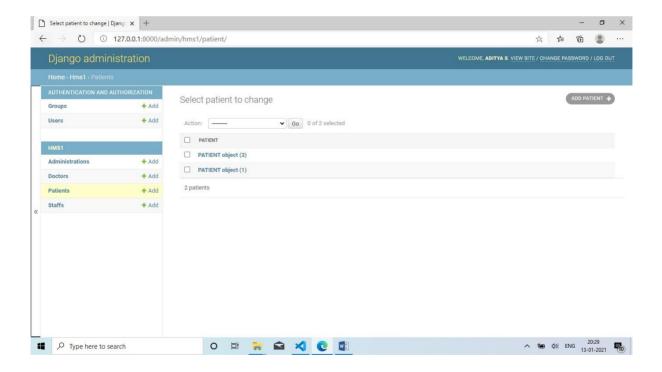
CREATE TRIGGER deleteP_ID BEFORE INSERT ON ` PATIENT ` FOR EACH ROW INSERT INTO logs VALUES (null, OLD. P_ID, "Deleted", NOW());

4.7 CREATION OF STORED PROCEDURES









CHAPTER 5 FRONT END DESIGN

5.1 CONNECTIVITY TO DATABASE

Settings.py

```
Django settings for dbms1 project.
Generated by 'django-admin startproject' using Django 3.1.4.
For more information on this file, see
https://docs.djangoproject.com/en/3.1/topics/settings/
For the full list of settings and their values, see
https://docs.djangoproject.com/en/3.1/ref/settings/
from pathlib import Path
# Build paths inside the project like this: BASE DIR / 'subdir'.
BASE DIR = Path( file ).resolve().parent.parent
# Quick-start development settings - unsuitable for production
# See https://docs.djangoproject.com/en/3.1/howto/deployment/checklist/
# SECURITY WARNING: keep the secret key used in production secret!
SECRET KEY = 'p*4zewsa4rfh)koo=xe#1!=*0^nbvo+akr8lsa*!e)0*%q&)1y'
# SECURITY WARNING: don't run with debug turned on in production!
DEBUG = True
ALLOWED_HOSTS = []
# Application definition
INSTALLED APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'hms1'
```

```
Hospital Management System
MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
ROOT URLCONF = 'dbms1.urls'
TEMPLATES = [
    {
        'BACKEND': 'django.template.backends.django.DjangoTemplates',
        'DIRS': [],
        'APP_DIRS': True,
        'OPTIONS': {
            'context processors': [
                'django.template.context processors.debug',
                'django.template.context processors.request',
                'django.contrib.auth.context processors.auth',
                'django.contrib.messages.context processors.messages',
            ],
        },
    },
WSGI APPLICATION = 'dbms1.wsgi.application'
# Database
# https://docs.djangoproject.com/en/3.1/ref/settings/#databases
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.sqlite3',
        'NAME': BASE DIR / 'db.sqlite3',
    }
# Password validation
# https://docs.djangoproject.com/en/3.1/ref/settings/#auth-password-validators
AUTH PASSWORD VALIDATORS = [
```

```
Hospital Management System
        'NAME': 'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',
    },
        'NAME': 'django.contrib.auth.password_validation.CommonPasswordValidator',
    },
        'NAME': 'django.contrib.auth.password_validation.NumericPasswordValidator',
    },
# Internationalization
# https://docs.djangoproject.com/en/3.1/topics/i18n/
LANGUAGE CODE = 'en-us'
TIME ZONE = 'UTC'
USE I18N = True
USE_L10N = True
USE TZ = True
# Static files (CSS, JavaScript, Images)
# https://docs.djangoproject.com/en/3.1/howto/static-files/
```

STATIC_URL = '/static/'

5.1 FRONT END CODE

Systems design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. Systems design could see it as the application of systems theory to product development. There is some overlap with the disciplines of systems analysis, systems architecture and systems engineering. If the broader topic of product development "blends the perspective of marketing, design, and manufacturing into a single approach to product development," then design is the act of taking the marketing information and creating the design of the product to be manufactured. Systems design is therefore the process of defining and developing systems to satisfy specified requirements of the user.

Until the 1990s systems design had a crucial and respected role in the data processing industry. In the 1990s standardization of hardware and software resulted in the ability to build modular systems. The increasing importance of software running on generic platforms has enhanced the discipline of software engineering.

Object-oriented analysis and design methods are becoming the most widely used methods for computer systems design.[citation needed] The UML has become the standard language in object-oriented analysis and design.[citation needed] It is widely used for modeling software systems and is increasingly used for high designing non-software systems and organizations.[citation needed]

System design is one of the most important phases of software development process. The purpose of the design is to plan the solution of a problem specified by the requirement documentation. In other words the first step in the solution to the problem is the design of the project.

asgi.py

```
ASGI config for dbms1 project.

It exposes the ASGI callable as a module-level variable named ``application``.

For more information on this file, see https://docs.djangoproject.com/en/3.1/howto/deployment/asgi/
"""

import os

from django.core.asgi import get_asgi_application

os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'dbms1.settings')

application = get_asgi_application()
```

urls.py

```
"""dbms1 URL Configuration
The `urlpatterns` list routes URLs to views. For more information please see:
   https://docs.djangoproject.com/en/3.1/topics/http/urls/
Examples:
Function views
    1. Add an import: from my_app import views
    2. Add a URL to urlpatterns: path('', views.home, name='home')
Class-based views
   1. Add an import: from other_app.views import Home
    Add a URL to urlpatterns: path('', Home.as_view(), name='home')
Including another URLconf
   1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
from django.contrib import admin
from django.urls import path
from hms1.views import edit_doctor, home, create_admin, create_doctor, create_staff, create
_patient, Administration_post, Doctor_post, Staff_post, Patient_post, all_posts_administrat
ion, all_posts_doctor, all_posts_staff, all_posts_patient, delete_post_admin, delete_post_d
octor, delete_post_staff, delete_post_patient, edit_admin, edit_staff, edit_patient
```

```
urlpatterns = [
   path('admin/', admin.site.urls),
   path('',home),
   path('Administ/',create_admin),
   path('Doct/',create_doctor),
   path('STA/',create_staff),
   path('PA/',create_patient),
   path('post1/<int:post_id>/',Administration_post),
   path('post2/<int:post_id>/',Doctor_post),
   path('post3/<int:post_id>/',Staff_post),
   path('post4/<int:post_id>/',Patient_post),
   path('allposts1/',all_posts_administration),
   path('allposts2/',all posts doctor),
   path('allposts3/',all_posts_staff),
   path('allposts4/',all_posts_patient),
   path('delete1/<int:post_id>/',delete_post_admin),
   path('delete2/<int:post_id>/',delete_post_doctor),
   path('delete3/<int:post_id>/',delete_post_staff),
   path('delete4/<int:post_id>/',delete_post_patient),
   path('edit1/<int:post_id>/',edit_admin),
   path('edit2/<int:post_id>/',edit_doctor),
   path('edit3/<int:post_id>/',edit_staff),
    path('edit4/<int:post_id>/',edit_patient)
```

wsgi.py

```
WSGI config for dbms1 project.
It exposes the WSGI callable as a module-level variable named ``application``.
For more information on this file, see
https://docs.djangoproject.com/en/3.1/howto/deployment/wsgi/
"""
import os
from django.core.wsgi import get_wsgi_application
os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'dbms1.settings')
application = get_wsgi_application()
```

001_initial.py

```
# Generated by Django 3.1.4 on 2021-01-29 11:45
from django.db import migrations, models
import django.db.models.deletion
class Migration(migrations.Migration):
    initial = True
    dependencies = [
    operations = [
       migrations.CreateModel(
            name='Administration',
            fields=[
                ('A ID', models.IntegerField(primary key=True, serialize=False)),
                ('A NAME', models.CharField(max length=1000)),
                ('GENDER', models.CharField(max length=100)),
            ],
        ),
       migrations.CreateModel(
            name='Doctor',
            fields=[
                ('D ID', models.IntegerField(primary key=True, serialize=False)),
                ('D NAME', models.CharField(max length=1000)),
                ('DEPT', models.CharField(max_length=100)),
                ('A ID', models.ForeignKey(on delete=django.db.models.deletion.CASCADE, to=
hms2.administration')),
            ],
        ),
       migrations.CreateModel(
            name='STAFF',
            fields=[
                ('S_ID', models.IntegerField(primary_key=True, serialize=False)),
                ('S_NAME', models.CharField(max_length=1000)),
                ('SALARY', models.IntegerField()),
                ('A_ID', models.ForeignKey(on_delete=django.db.models.deletion.CASCADE, to=
hms2.administration')),
```

Hospital Management System

All_posts_administration.html

```
chtml>
   <head>
       <title>All Posts</title>
       <meta charset="utf-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <title>Welcome to Hospital Management System</title>
       <meta name="description" content="An interactive getting Hospital Management System</pre>
       <link rel="stylesheet" href="/static/main.css">
   </head>
   <body>
       <div class="container">
           {% for post in posts %}
           <a href="/post1/{{post.id}}/">
               <h1>{{post.A ID}}</h1>
           </a>
           {{post.A_ID}}
           {{post.A NAME}}
           {{post.GENDER}}
           <hr> {% endfor %}
       </div>
   </body>
/html>
```

All_posts_doctor.html

```
<html>
       <title>All Posts</title>
       <meta charset="utf-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <title>Welcome to Hospital Management System</title>
       <meta name="description" content="An interactive getting Hospital Management System</pre>
       <link rel="stylesheet" href="/static/main.css">
   </head>
   <body>
       <div class="container">
           {% for post in posts %}
           <a href="/post2/{{post.id}}/">
               <h1>{{post.D_ID}}</h1>
           </a>
           {{post.D_ID}}
           {{post.D_NAME}}
           {{post.DEPT}}
           {{post.A_ID_id}}
           <hr> {% endfor %}
       </div>
   </body>
/html>
```

All_posts_Staff.html

Hospital Management System

All_posts_Patient.html

```
<html>
   <head>
       <title>All Posts</title>
       <meta charset="utf-8">
       <meta http-equiv="X-UA-Compatible" content="IE=edge">
       <title>Welcome to Hospital Management System</title>
       <meta name="description" content="An interactive getting Hospital Management System</pre>
       <link rel="stylesheet" href="/static/main.css">
   </head>
       <div class="container">
           {% for post in posts %}
           <a href="/post4/{{post.id}}/">
               <h1>{{post.P_ID}}</h1>
           </a>
           {{post.P_ID}}
           {{post.P_NAME}}
           {{post.DISEASE}}
           {{post.FEE}}
           {{post.TOTALBILL}}
           {{post.D_ID_id}}
           <hr> {% endfor %}
       </div>
   </body>
/html>
```

Post Admin.html

```
<html>
<title>{{selected_post.A_ID}}</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
</head>
<body>
   <a href="/allposts1/">Back</a>
   <br>
   <a href="/delete1/{{selected_post.id}}">Delete</a>
   <a href="/edit1/{{selected_post.id}}">Edit</a>
   <br>
   <h1>{{selected_post.A_ID}}</h1>
   Published {{selected_post.created}}
   {{selected_post.A_ID_id}}
   {{selected_post.A_NAME}}
   {{selected post.GENDER}}
</body>
/html>
```

Post_Doctor.html

```
<html>
<head>
<title>{{selected_post.D_ID}}</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
```

Hospital Management System

Post Staff.html

```
<html>
<title>{{selected_post.S_ID}}</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
</head>
<body>
   <a href="/allposts3/">Back</a>
   <br>
   <a href="/delete3/{{selected_post.id}}">Delete</a>
   <a href="/edit3/{{selected_post.id}}">Edit</a>
   <h1>{{selected_post.S_ID}}</h1>
   Published {{selected_post.created}}
   {{selected_post.S_ID}}
   {{selected_post.S_NAME}}
   {{selected_post.SALARY}}
   {{selected_post.A_ID_id}}
```

Post Patient.html

Hospital Management System

```
<html>
   <title>Create new Patient</title>
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbflcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
   </head>
   <body>
       <br><br><br>></pr>
       <div class="container">
           <h3>Create new Patient</h3>
           <img src="/static/dd.jpeg">
           <form action="/PA/" method="POST">
           {% csrf token %}
           P ID
           <input type="text" class="form-control" name="P_ID">
           P NAME
           <input type="text" class="form-control" name="P_NAME">
           <br>
           DISEASE
           <input type="text" class="form-control" name="DISEASE">
           <br>
           <input type="text" class="form-control" name="FEE">
           <br>
           TOTALBILL
           <input type="text" class="form-control" name="TOTALBILL">
           <br>
           D ID
           <input type="text" class="form-control" name="D_ID_id">
           <button type="submit" class="btn btn-success">Submit
           </form>
```

```
</div>
</body>
</html>
```

edit administration.html

```
<html>
    <head>
   <title>Create Update Administration</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbflcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
    </head>
    <body>
       <br><br><br>>
       <div class="container">
            <h3>Create Update Administration</h3>
            <img src="/static/OIP.jpeg">
            <hr>>
            <form action="/edit1/{{post.id}}/" method="POST">
            {% csrf_token %}
            A_ID
            <input type="text" class="form-control" name="A_ID" value="{{post.A_ID}}">
            A_NAME
            <input type="text" class="form-control" name="A_NAME" value="{{post.A_NAME}}">
            GENDER
            <input type="text" class="form-control" name="GENDER" value="{{post.GENDER}}">
            <br>
            <button type="submit" class="btn btn-success">Update</button>
            </form>
       </div>
    </body>
 /html>
```

edit_Doctor.html

```
<html>
    <head>
    <title> Update Doctor</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbflcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
    </head>
    <body>
        <br><br><br>>
        <div class="container">
            <h3>Update Doctor</h3>
            <img src="/static/doctor-supply.jpeg">
            <form action="/edit2/{{post.id}}/" method="POST">
            {% csrf_token %}
            \langle p \rangle D_ID \langle /p \rangle
            <input type="text" class="form-control" name="D_ID" value="{{post.D_ID}}}">
            <br>
            D_NAME
            <input type="text" class="form-control" name="D_NAME" value="{{post.D_NAME}}">
            <br>
            DEPT
            <input type="text" class="form-control" name="DEPT" value="{{post.DEPT}}}">
            <br>
            A_ID
            <input type="text" class="form-</pre>
control" name="A_ID_id" value="{{post.A_ID_id}}">
            <button type="submit" class="btn btn-success">Update</button>
            </form>
        </div>
    </body>
/html>
```

edit_Staff.html

```
<html>
    <head>
    <title> Update Staff</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
    <body>
       <br><br><br>>
        <div class="container">
            <h3>Update Staff</h3>
            <img src="/static/20200630_HT_Web_MonITor_Tech-Organizations-Should-</pre>
Consider.jpg">
            <form action="/edit3/{{post.id}}/" method="POST">
            {% csrf_token %}
            S ID
            <input type="text" class="form-control" name="S_ID" value="{{post.S_ID}}">
            S NAME
            <input type="text" class="form-control" name="S_NAME" value="{{post.S_NAME}}">
            SALARY
            <input type="text" class="form-control" name="SALARY" value="{{post.SALARY}}">
            A_ID
            <input type="text" class="form-</pre>
control" name="A_ID_id" value="{{post.A_ID_id}}">
            <br>
            <button type="submit" class="btn btn-success">Update</button>
       </div>
    </body>
/html>
```

edit_Patient.html

```
<html>
   <head>
   <title> Update Doctor</title>
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
   </head>
   <body>
       <br><br><br>>
       <div class="container">
           <h3>Update Doctor</h3>
           <img src="/static/doctor-supply.jpeg">
           <form action="/edit2/{{post.id}}/" method="POST">
           {% csrf_token %}
           D ID
           <input type="text" class="form-control" name="D_ID" value="{{post.D_ID}}}">
           <br>
           D_NAME
           <input type="text" class="form-control" name="D_NAME" value="{{post.D_NAME}}">
           <br>
           DEPT
           <input type="text" class="form-control" name="DEPT" value="{{post.DEPT}}}">
           <br>
           A_ID
           <input type="text" class="form-</pre>
control" name="A_ID_id" value="{{post.A_ID_id}}">
           <button type="submit" class="btn btn-success">Update/button>
           </form>
       </div>
   </body>
```

Create_admin.html

```
<html>
   <head>
   <title>Create new Administration</title>
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbflcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
   <body>
       <br><br><br>>
       <div class="container">
           <h3>Create new Administration</h3>
           <img src="/static/OIP.jpeg">
           <form action="/Administ/" method="POST">
           {% csrf_token %}
           A ID
           <input type="text" class="form-control" name="A_ID">
           <br>
           A NAME
           <input type="text" class="form-control" name="A_NAME">
           GENDER
           <input type="text" class="form-control" name="GENDER">
           <button type="submit" class="btn btn-success">Submit
           </form>
       </div>
   </body>
```

Create_Doctor.html

```
<html>
   <head>
   <title>Create new Doctor</title>
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
   <body>
       <br><br><br>>
       <div class="container">
           <h3>Create new Doctor</h3>
           <img src="/static/doctor-supply.jpeg">
           <form action="/Doct/" method="POST">
           {% csrf token %}
           D ID
           <input type="text" class="form-control" name="D ID">
           D NAME
           <input type="text" class="form-control" name="D NAME">
           DEPT
           <input type="text" class="form-control" name="DEPT">
           A_ID
           <input type="text" class="form-control" name="A_ID_id">
           <br>
           <button type="submit" class="btn btn-success">Submit
           </form>
       </div>
   </body>
 /html>
```

Create_Staff.html

```
<html>
   <title>Create new Staff</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
    </head>
    <body>
       <br><br><br>>
       <div class="container">
           <h3>Create new Staff</h3>
           <hr>>
           <img src="/static/20200630_HT_Web_MonITor_Tech-Organizations-Should-</pre>
Consider.jpg">
           <form action="/STA/" method="POST">
           {% csrf_token %}
           S ID
           <input type="text" class="form-control" name="S_ID">
           <br>
           S NAME
           <input type="text" class="form-control" name="S NAME">
           SALARY
           <input type="text" class="form-control" name="SALARY">
           A_ID
           <input type="text" class="form-control" name="A ID id">
           <button type="submit" class="btn btn-success">Submit
           </form>
       </div>
    </body>
 /html>
```

Create_Patient.html

```
<html>
   <head>
   <title>Create new Patient</title>
   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-</pre>
beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1" crossorigin="anonymous">
   </head>
   <body>
       <br><br><br>>
       <div class="container">
           <h3>Create new Patient</h3>
           <hr>>
           <img src="/static/dd.jpeg">
           <form action="/PA/" method="POST">
           {% csrf token %}
           P ID
           <input type="text" class="form-control" name="P_ID">
           P NAME
           <input type="text" class="form-control" name="P_NAME">
           <br>
           DISEASE
           <input type="text" class="form-control" name="DISEASE">
           <br>
           FEE
           <input type="text" class="form-control" name="FEE">
           TOTALBILL
           <input type="text" class="form-control" name="TOTALBILL">
           <br>
           D ID
           <input type="text" class="form-control" name="D_ID_id">
           <button type="submit" class="btn btn-success">Submit
           </form>
       </div>
   </body>
 /html>
```

Index.html

A hospital information system (HIS) is an element of health informatics that focuse s mainly on the administrational needs of hospitals. In many implementations, a HIS is a comprehensive, integrated information system designed to manage all the aspects of a hospital 's operation, such as medical, administrative, financial, and legal issues and the corresponding processing of services. Hospital information system is also known as hospital management software (HMS) or hospital management system.

Hospital information systems provide a common source of information about a patient 's health history. The system has to keep data in a secure place and controls who can reach the data in certain circumstances. These systems enhance the ability of health care profes sionals to coordinate care by providing a patient's health information and visit history at the place and time that it is needed. Patient's laboratory test information also includes visual results such as X-

ray, which may be reachable by professionals. HIS provide internal and external communicati on among health care providers. Portable devices such as smartphones and tablet computers m ay be used at the bedside.

Hospital information systems are often composed of one or several software components with specialty-specific extensions, as well as of a large variety of subsystems in medical specialties from a multi-

vendor market. Specialized implementations name for example laboratory information system (

LIS), Policy and Procedure Management System, radiology information system (RIS) or picture archiving and communication system (PACS).

Potential benefits of hospital information systems include:

Efficient and accurate administration of finance, diet of patient, engineering, and distribution of medical aid. It helps to view a broad picture of hospital growth

Improved monitoring of drug usage, and study of effectiveness. This leads to the re duction of adverse drug interactions while promoting more appropriate pharmaceutical utilization.

Enhances information integrity, reduces transcription errors, and reduces duplicati on of information entries.

Hospital software is easy to use and eliminates error caused by handwriting. New te chnology computer systems give perfect performance to pull up information from server or cl oud servers.

```
<img src="/static/800px-NHS_NNUH_entrance.jpeg">
<!--
    LET US KNOW WHAT YOU THINK
-->
<h2>Get involved</h2>
<n>
```

A hospital is a health care institution providing patient treatment with specialize d medical and nursing staff and medical equipment. The best-

known type of hospital is the general hospital, which typically has an emergency department to treat urgent health problems ranging from fire and accident victims to a sudden illness

As long as each stage implementation needs to be accurate and explicit, the clinic management system provides certain automation of many vital daily processes. The hospital system software covers the services that unify and simplify the work of healthcare professionals as well as their interactions with patients.

There is always the wide choice of features that can be included in the system. Mor eover, the most important thing they are created to streamline various procedures that meet the needs of all the users. The hospital management system feature list is concentrated on providing the smooth experience of patients, staff and hospital authorities. It might seem that their expectations differ, they still are covered by components of the hospital information system. Quality and security still remain the main criteria of the medical industry. It is also known for the constant and rapid changes to improve the efficiency of medical services and satisfaction of the patients.

Hospital management has greatly changed over the last decades. Business expertise, modern technologies, connected devices, mobile apps, and knowledge of healthcare are key el ements for the implementation of hospital management system project. The number of healthca re providers has increased and the patients have a wide choice of medical specialists. The interactions between the hospital and the patient can be simplified for the convenience of both sides. Each institution has the opportunity to create the efficient, clear and fast de livering healthcare model.

```
<a href="http://127.0.0.1:8000/Administ/">Administration.io</a>
<a href="http://127.0.0.1:8000/Doct/">Doctor.io</a>
<a href="http://127.0.0.1:8000/STA/">STAFF.io</a>
<a href="http://127.0.0.1:8000/PA/">PATIENT.io</a>
<a href="http://127.0.0.1:8000/PA/">PATIENT.io</a>

<a href="https://en.wikipedia.org/wiki/Hospital">Hospital Management System</a>

</a>

<a href="https://en.wikipedia.org/wiki/Hospital">Hospital Management System</a>

<a hre
```

A hospital contains one or more wards that house hospital beds for inpatients. It m ay also have acute services such as an emergency department, operating theatre, and intensi ve care unit, as well as a range of medical specialty departments. A well-equipped hospital may be classified as a trauma center. They may also have other services s uch a hospital pharmacy, radiology, pathology and medical laboratories. Some hospitals have outpatient departments such as behavioral health services, dentistry, and rehabilitation s ervices.

A hospital may also have a department of nursing, headed by a chief nursing officer or director of nursing. This department is responsible for the administration of professional nursing practice, research, and policy for the hospital.

Many units have both a nursing and a medical director that serve as administrators for their respective disciplines within that unit. For example, within an intensive care nursery, a medical director is responsible for physicians and medical care, while the nursing manager is responsible for all of the nurses and nursing care.

Support units may include a medical records department, release of information department, technical support, clinical engineering, facilities management, plant operations, dining services, and security departments.

The COVID-

19 pandemic stimulated the development of virtual wards across the British NHS. Patients ar e managed at home, monitoring their own oxygen levels using an oxygen saturation probe if n ecessary and supported by telephone. West Hertfordshire Hospitals NHS Trust managed around 1200 patients at home between March and June 2020 and planned to continue the system after covid-19, initially for respiratory patients.

```
</body>
</html>
```

Admin.py

```
from django.contrib import admin
from hms1.models import Doctor
from hms1.models import STAFF
from hms1.models import PATIENT

# Register your models here.

admin.site.register(Administration)
admin.site.register(Doctor)
admin.site.register(STAFF)
admin.site.register(PATIENT)
```

Apps.py

```
from django.apps import AppConfig

class HmsConfig(AppConfig):
    name = 'hms1'
```

Models.py

```
from django.db import models

# Create your models here.
from django.db import models

# Create your models here.
class Administration(models.Model):
    A_ID=models.IntegerField(primary_key=True)
    A_NAME=models.CharField(max_length=1000)
    GENDER=models.CharField(max_length=100)

def _str(self):
    return self.A_ID
```

Hospital Management System

```
class Doctor(models.Model):
   D ID=models.IntegerField(primary key=True)
   D NAME=models.CharField(max length=1000)
   DEPT=models.CharField(max length=100)
   A ID=models.ForeignKey(Administration, on delete=models.CASCADE)
   def _str(self):
       return self.D ID
class STAFF(models.Model):
   S ID=models.IntegerField(primary_key=True)
   S_NAME=models.CharField(max length=1000)
   SALARY=models.IntegerField()
   A ID=models.ForeignKey(Administration, on delete=models.CASCADE)
   def _str(self):
       return self.S ID
class PATIENT(models.Model):
   P ID=models.IntegerField(primary key=True)
   P NAME=models.CharField(max length=1000)
   DISEASE=models.CharField(max length=100)
   FEE=models.IntegerField()
   TOTALBILL=models.IntegerField()
   D_ID=models.ForeignKey(Doctor, on_delete=models.CASCADE)
   def str(self):
       return self.P ID
```

tests.py

```
from django.test import TestCase
# Create your tests here.
```

views.py

```
from django.shortcuts import render, redirect
from django.http import HttpResponse
from hms1.models import Administration
from hms1.models import Doctor
from hms1.models import STAFF
from hms1.models import PATIENT
# Create your views here.
def home(request):
   return render(request, "index1.html")
# Create your views here.
def Administration_post(request, post_id):
   print(post_id)
   post1 = Administration.objects.get(pk=post_id)
   return render(request, "create_admin_post.html", {"selected_post": post1})
def Doctor_post(request, post_id):
   print(post_id)
   post2 = Doctor.objects.get(pk=post_id)
    return render(request, "creaate_doctor_post.html", {"selected_post": post2})
def Staff_post(request, post_id):
   print(post id)
    post3 = STAFF.objects.get(pk=post_id)
    return render(request, "create_staff_post.html", {"selected_post": post3})
def Patient post(request, post id):
   print(post_id)
   post4 = PATIENT.objects.get(pk=post id)
    return render(request, "create_patient_post.html", {"selected_post": post4})
def create_admin(request):
    if request.method == "POST":
        A_ID = request.POST["A_ID"]
        A_NAME = request.POST["A_NAME"]
```

```
Hospital Management System
        GENDER = request.POST["GENDER"]
        new post1 = Administration.objects.create(A ID=A ID, A NAME=A NAME, GENDER=GENDER)
        return redirect("/allposts1/")
    return render(request, "create admin.html")
def create doctor(request):
   if request.method == "POST":
        D ID = request.POST["D ID"]
        D NAME = request.POST["D NAME"]
        DEPT = request.POST["DEPT"]
        A ID id = request.POST["A ID id "]
        new_post2 = Doctor.objects.create(D_ID= D_ID, D_NAME=D_NAME, DEPT=DEPT, A_ID_id =A
ID id )
        return redirect("/allposts2/")
    return render(request, "create doctor.html")
def create staff(request):
    if request.method == "POST":
        S ID = request.POST["S ID"]
        S NAME = request.POST["S NAME"]
        SALARY = request.POST["SALARY"]
        A ID id = request.POST["A ID id "]
        new post3 = STAFF.objects.create(S ID= S ID, S NAME=S NAME, SALARY=SALARY, A ID id
=A ID id )
        return redirect("/allposts3/")
    return render(request, "create staff.html")
def create patient(request):
    if request.method == "POST":
        P ID = request.POST["P ID"]
        P NAME = request.POST["P NAME"]
        DISEASE = request.POST["DISEASE"]
        FEE = request.POST["FEE"]
        TOTALBILL = request.POST["TOTALBILL"]
        D_ID_id = request.POST["D_ID"]
        new post4 = PATIENT.objects.create(P ID= P ID, P NAME=P NAME, DISEASE= DISEASE, FEE
= FEE, TOTALBILL= TOTALBILL, D_ID_id =D_ID_id)
        return redirect("/allposts4/")
```

```
return render(request, "create patient.html")
def all posts administration(request):
    all posts administration = Administration.objects.all()
    return render(request, "all posts administration.html", {"posts": all posts administratio
n})
def all posts doctor(request):
    all posts doctor = Doctor.objects.all()
    return render(request, "all_posts_doctor.html", {"posts": all_posts_doctor})
def all posts staff(request):
    all posts staff = STAFF.objects.all()
    return render(request, "all posts staff.html", {"posts": all posts staff})
def all posts patient(request):
    all posts patient = PATIENT.objects.all()
    return render(request, "all posts patient.html", {"posts": all posts patient})
def delete post admin(request, post id):
    post1 = Administration.objects.get(pk=post id)
    post1.delete()
    return redirect("/allposts1/")
def delete post doctor(request, post id):
    post2 = Doctor.objects.get(pk=post id)
    post2.delete()
   return redirect("/allposts2/")
def delete post staff(request, post id):
   post3 = STAFF.objects.get(pk=post_id)
   post3.delete()
   return redirect("/allposts3/")
def delete post patient(request, post id):
    post4 = PATIENT.objects.get(pk=post id)
    post4.delete()
    return redirect("/allposts4/")
def edit_admin(request, post_id):
    post1 = Administration.objects.get(pk=post_id)
    if request.method == "POST":
        A_ID = request.POST["A_ID"]
        A NAME = request.POST["A NAME"]
        GENDER = request.POST["GENDER"]
        post1.A_ID = A_ID
```

```
Hospital Management System
        post1.A NAME = A NAME
        post1.GENDER = GENDER
        post1.save()
        return redirect(f"/post1/{post1.id}/")
    return render(request, "edit admin.html", {"post": post1})
def edit_doctor(request, post_id):
   post2 = Doctor.objects.get(pk=post id)
    if request.method == "POST":
        D ID = request.POST["D ID"]
        D NAME = request.POST["D NAME"]
        DEPT = request.POST["DEPT"]
        A ID id = request.POST["A ID id "]
        post2.D_ID = D_ID
        post2.D NAME = D NAME
        post2.DEPT = DEPT
        post2.A_ID_id = A_ID_id
        post2.save()
        return redirect(f"/post2/{post2.id}/")
    return render(request, "edit doctor.html", {"post": post2})
def edit_staff(request, post_id):
    post3 = STAFF.objects.get(pk=post id)
    if request.method == "POST":
        S ID = request.POST["S ID"]
        S_NAME = request.POST["S_NAME"]
        SALARY = request.POST["SALARY"]
        A ID id = request.POST["A ID"]
        post3.S ID = S ID
        post3.S NAME = S NAME
        post3.SALARY = SALARY
        post3.A_ID_id = A_ID_id
        post3.save()
        return redirect(f"/post3/{post3.id}/")
    return render(request, "edit_staff.html", {"post": post3})
def edit_patient(request, post_id):
    post4 = PATIENT.objects.get(pk=post id)
    if request.method == "POST":
        P_ID = request.POST["P_ID"]
```

```
Hospital Management System

P_NAME = request.POST["P_NAME"]

DISEASE = request.POST["DISEASE"]

FEE = request.POST["FEE"]

TOTALBILL = request.POST["TOTALBILL"]

D_ID = request.POST["D_ID_id "]

post4.P_ID = P_ID

post4.P_NAME = P_NAME

post4.DISEASE = DISEASE

post4.FEE = FEE

post4.TOTALBILL = TOTALBILL

post4.D_ID_id = D_ID_id

post4.save()

return redirect(f"/post4/{post4.id}/")

return render(request,"edit_patient.html",{"post": post4})
```

manage.py

```
#!/usr/bin/env python
"""Django's command-line utility for administrative tasks."""
import os
import sys
def main():
    """Run administrative tasks."""
   os.environ.setdefault('DJANGO SETTINGS MODULE', 'dbms1.settings')
        from django.core.management import execute_from_command_line
    except ImportError as exc:
       raise ImportError(
            "Couldn't import Django. Are you sure it's installed and "
            "available on your PYTHONPATH environment variable? Did you "
            "forget to activate a virtual environment?"
        ) from exc
    execute_from_command_line(sys.argv)
if __name__ == '__main__':
    main()
```

CHAPTER 6

TESTING

This chapter gives the outline of all testing methods that are carried out to get a bug free system. Quality can be achieved by testing the product using different techniques at different phases of the project development. The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components sub assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

6.1 TESTING PROCESS

Testing is an integral part of software development. Testing process certifies whether the product that is developed compiles with the standards that it was designed to. Testing process involves building of test cases against which the product has to be tested.

6.2 TESTING OBJECTIVES

The main objectives of testing process are as follows.

- Testing is a process of executing a program with the intent of finding an error.
- A good test case is one that has high probability of finding undiscovered error.
- A successful test is one that uncovers the undiscovered error.

6.3 TEST CASES

The test cases provided here test the most important features of the project.

6.3.1 Test cases for the project

Table 6.1 ----- Test Case

| Sl No | Test Input | Expected Results | Observed Results | Remark |
|-------|-------------------|-------------------------|-------------------------|--------|
| | | | | S |

| 1 | Wrong | Invalid Credentials | Invalid Credentials | |
|---|----------|---------------------|---------------------|--|
| | Password | | | |
| 2 | | | | |
| 3 | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

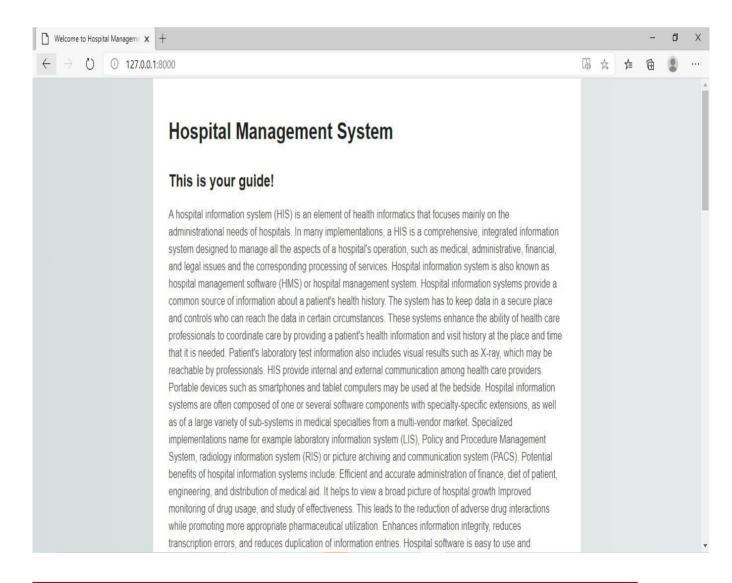
CHAPTER 7

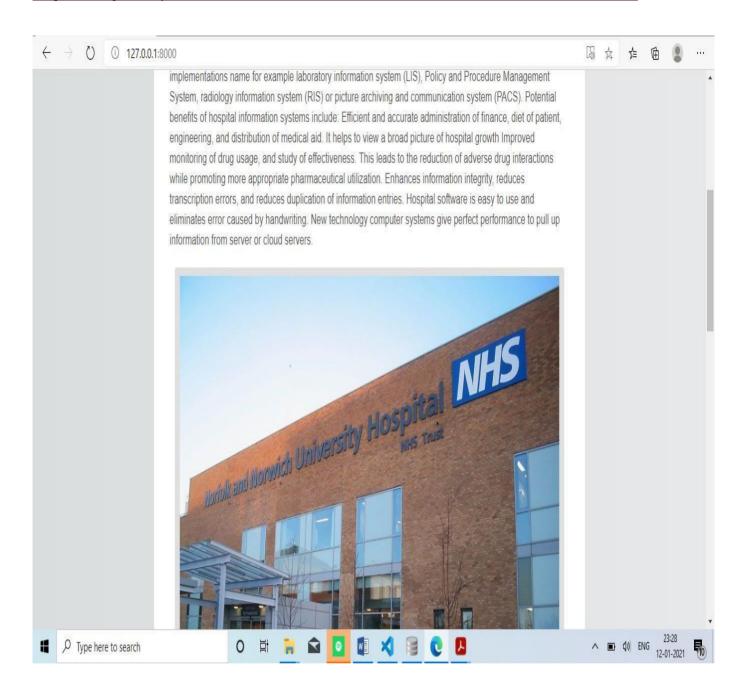
RESULTS

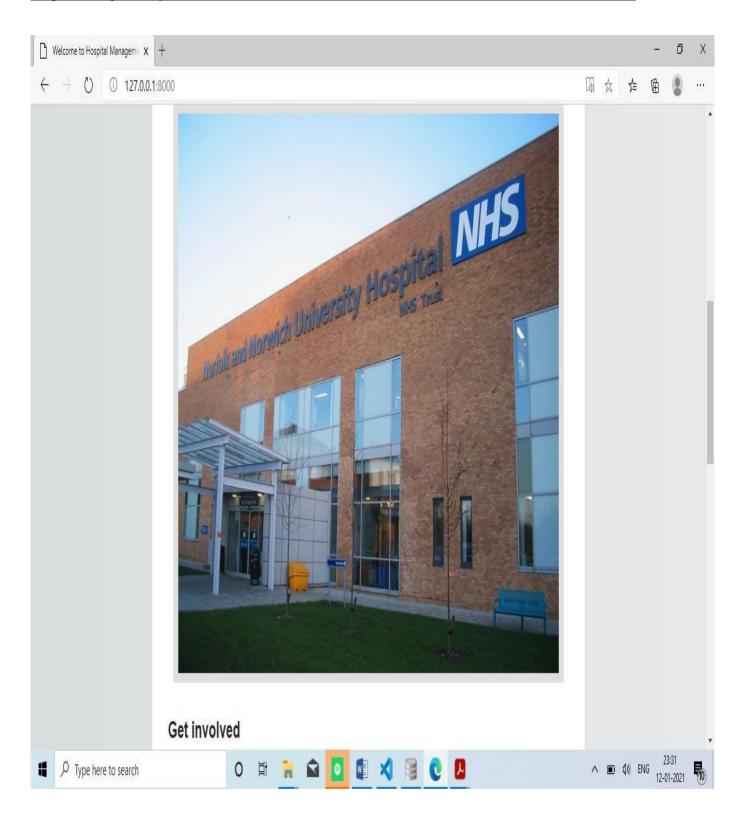
This section describes the screens of the "Hospital Management System". The snapshots are shown below for each module.

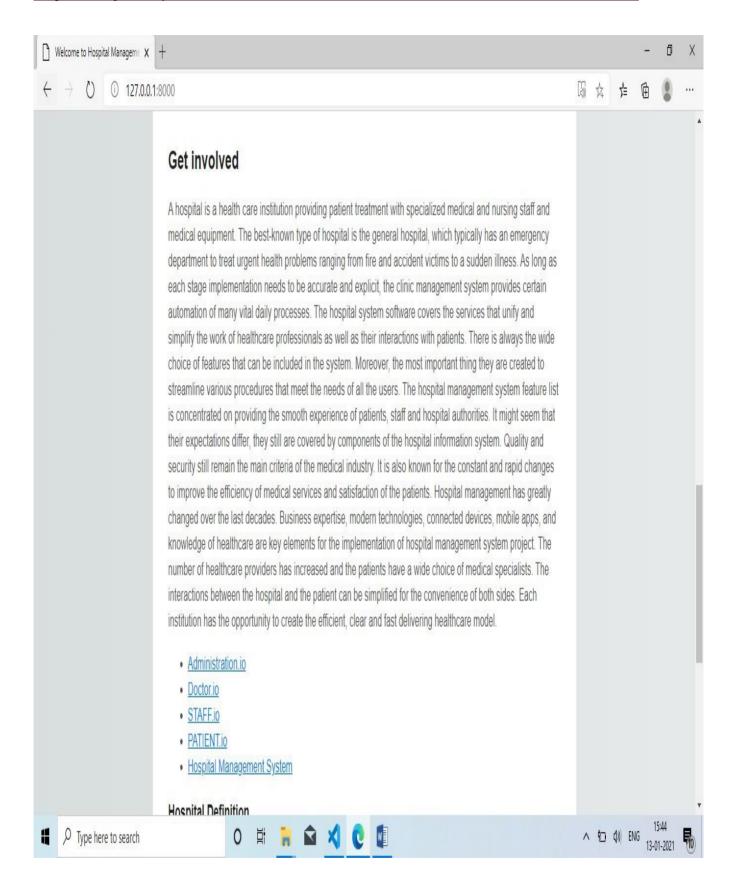
7.1 SNAPSHOTS

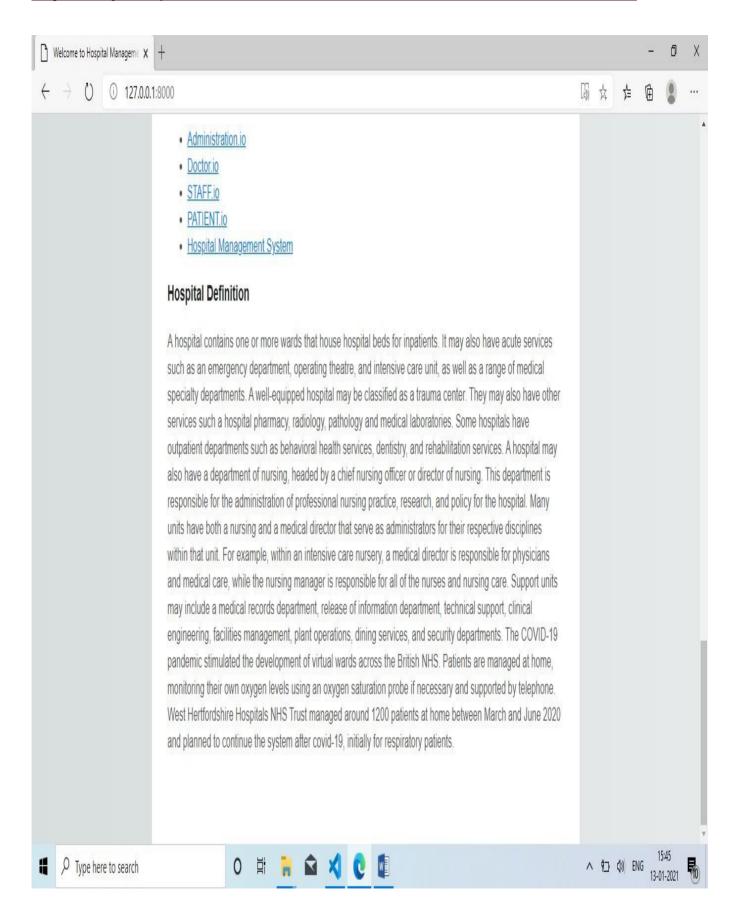
Snapshot1:-----Layout

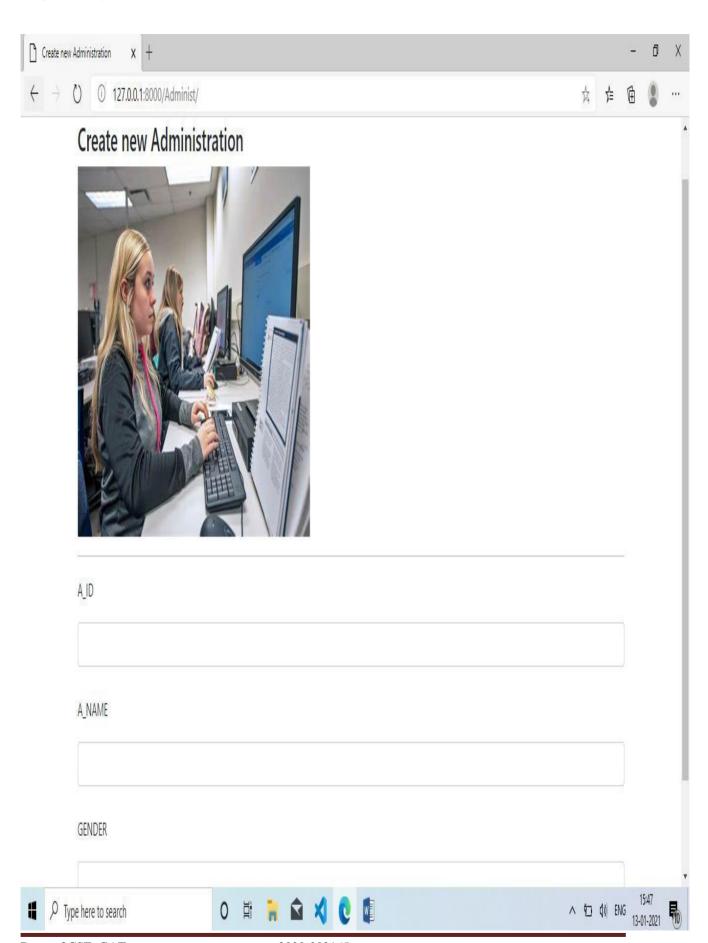


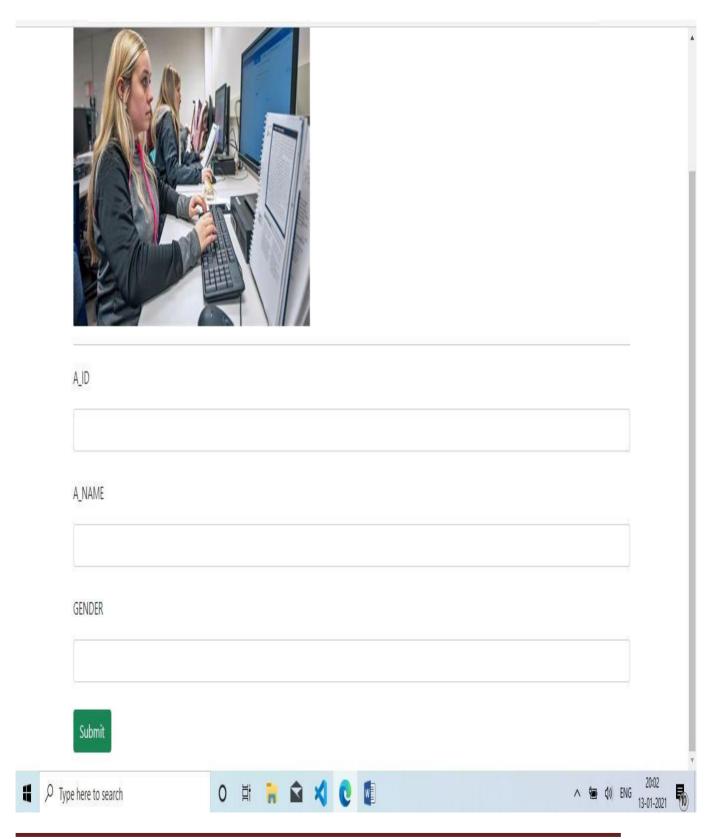


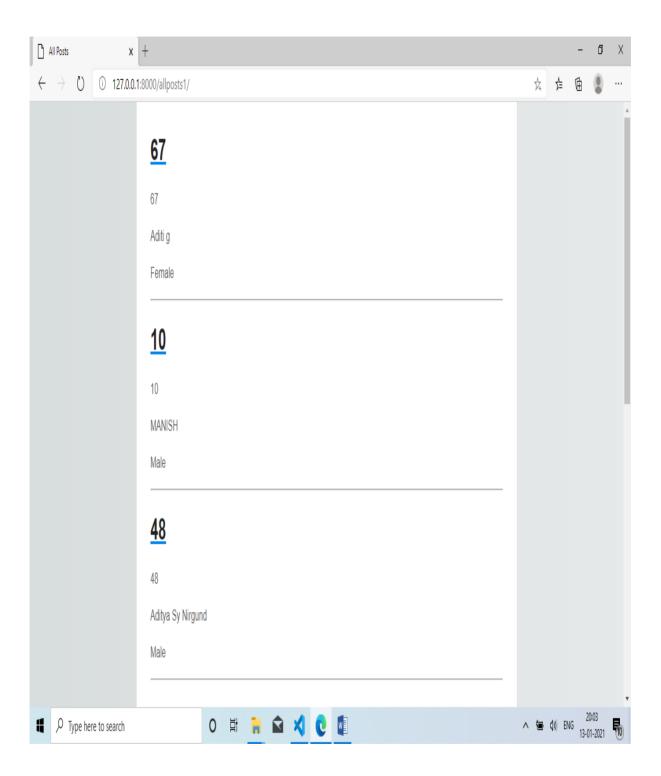




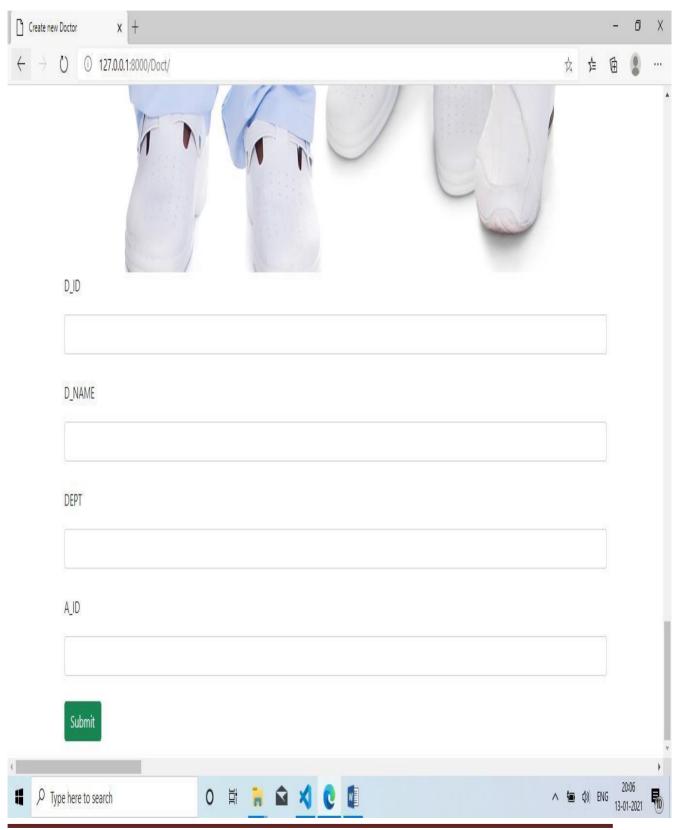


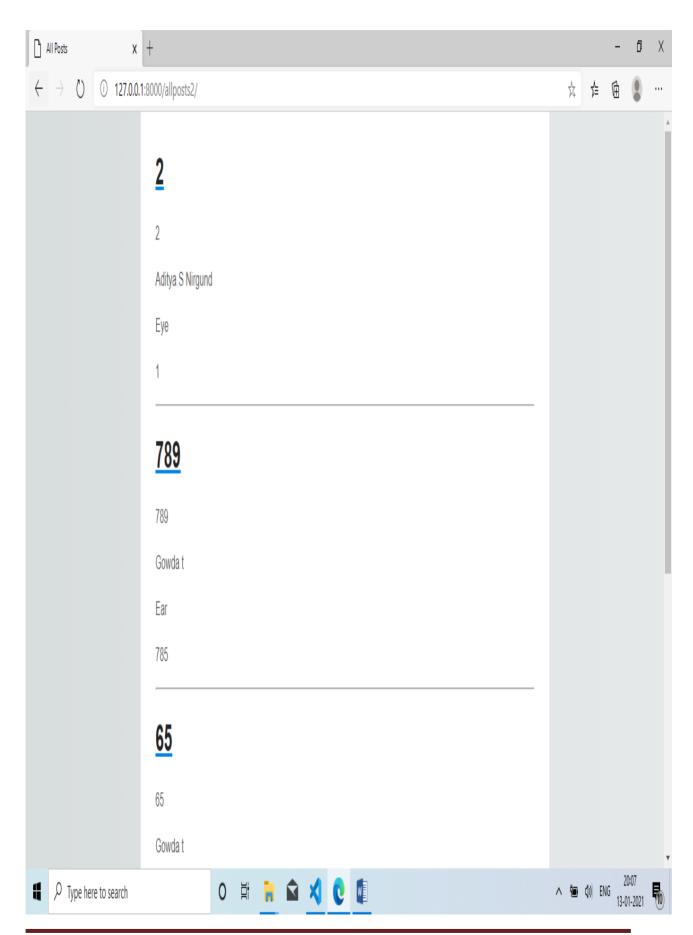






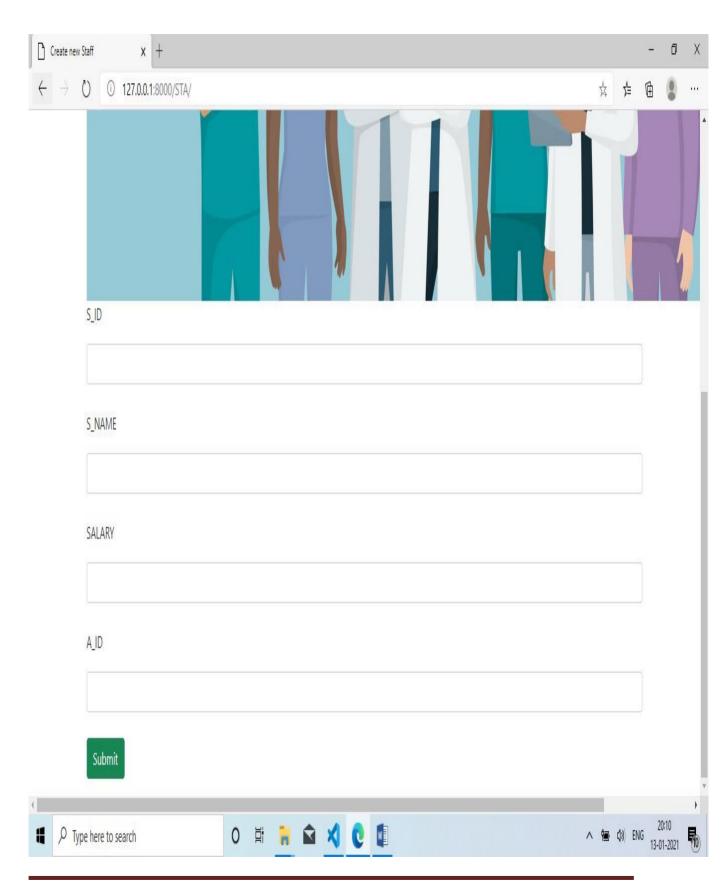


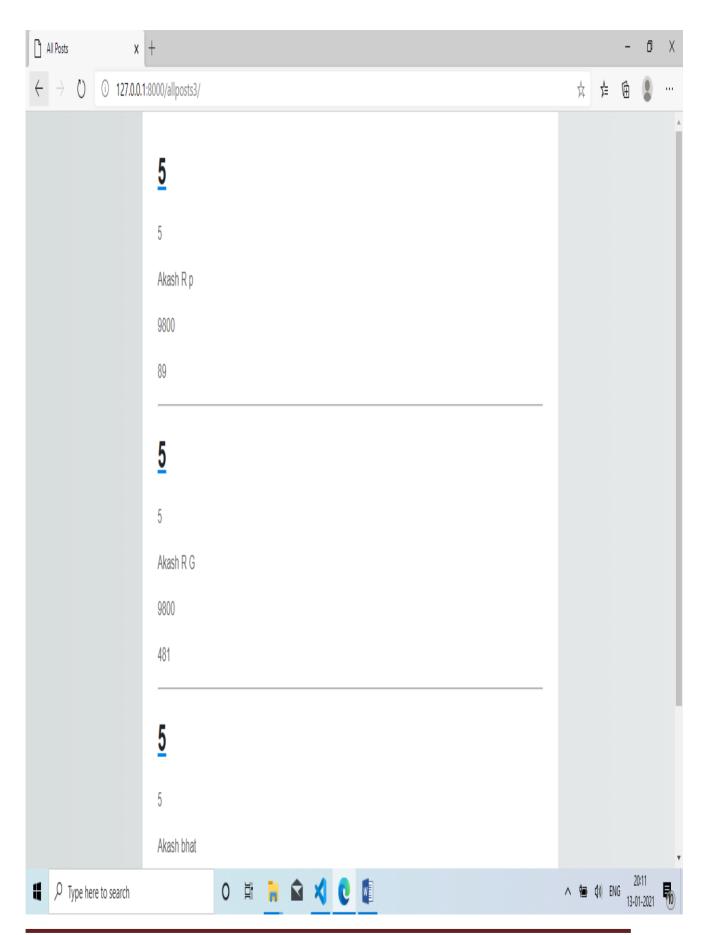




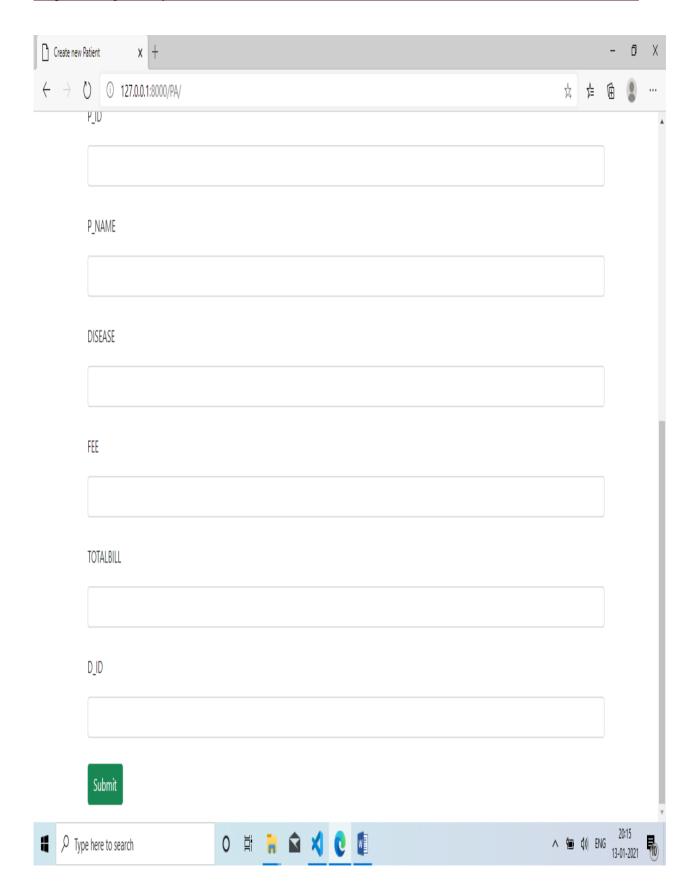


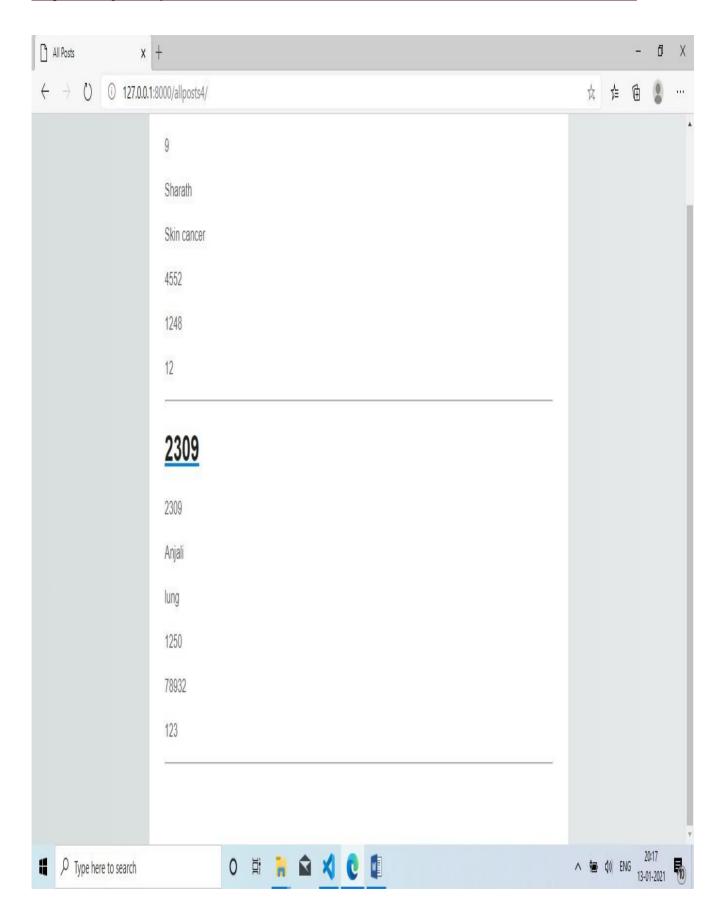


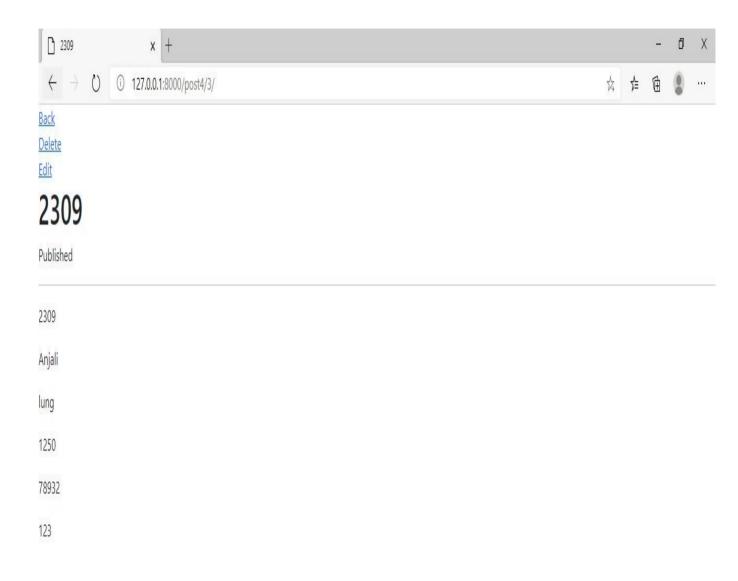


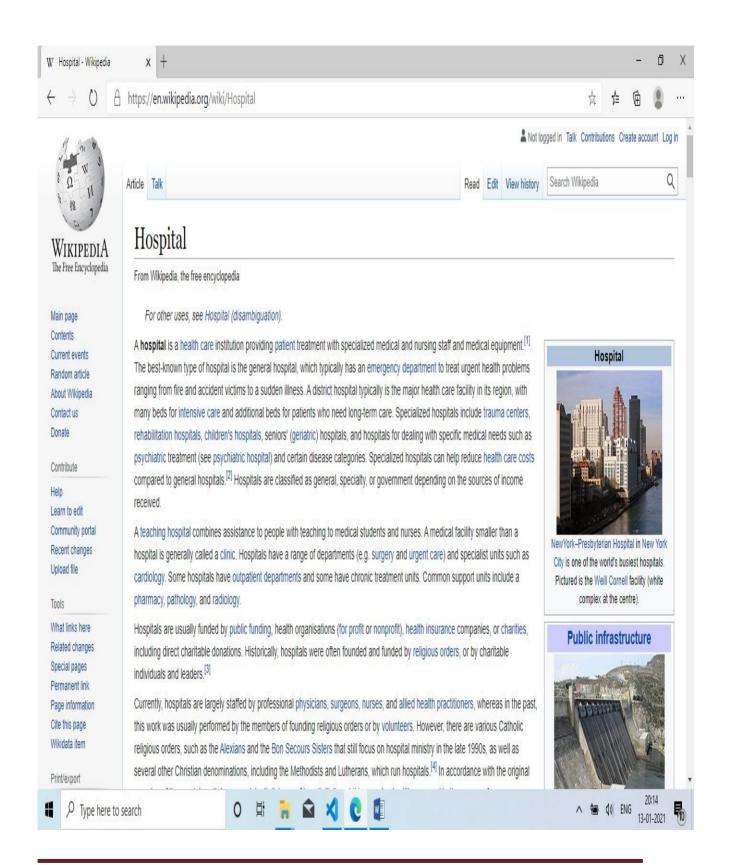


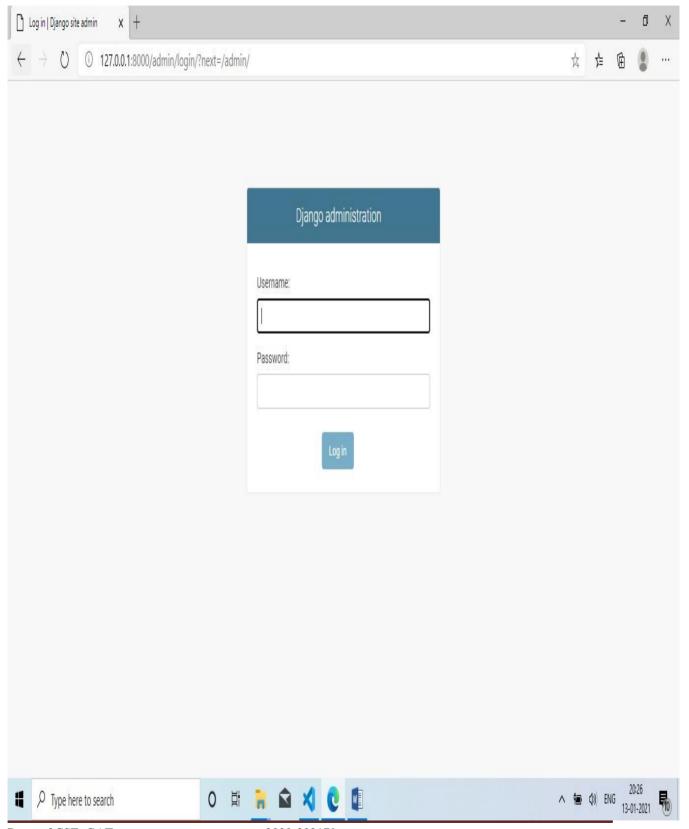


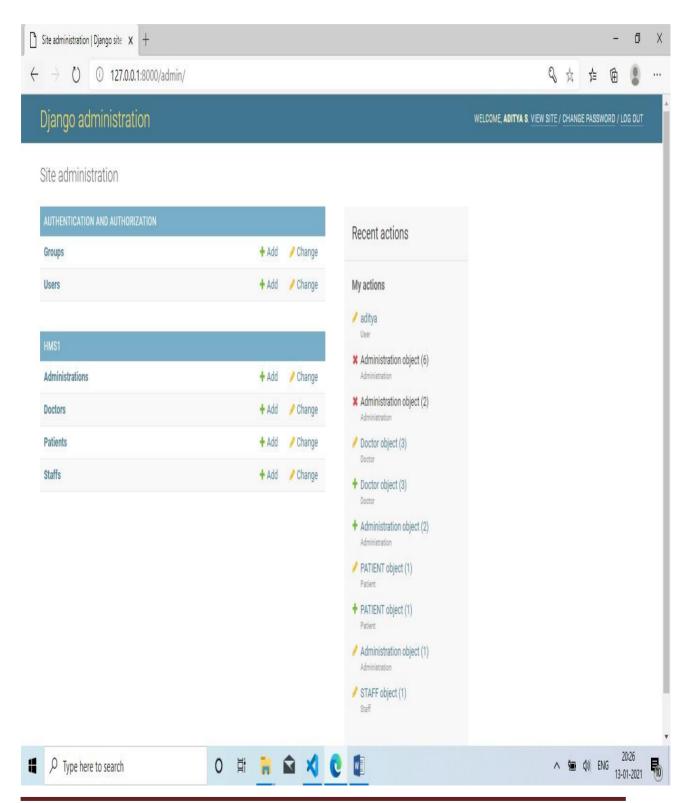












CONCLUSION

Taking into account all the mentioned details, we can make the conclusion that the hospital management system is the inevitable part of the lifecycle of the modern medical institution. It automates numerous daily operations and enables smooth interactions of the users.

Developing the hospital system software is a great opportunity to create the distinct, efficient and fast delivering healthcare model.

Implementation of hospital management system project helps to store all the kinds of records, provide coordination and user communication, implement policies, improve day-to-day operations, arrange the supply chain, manage financial and human resources, and market hospital services.

This beneficial decision covers the needs of the patients, staff and hospital authorities and simplifies their interactions. It has become the usual approach to manage the hospital. Many clinics have already experienced its advantages and continue developing new hospital management system project modules.

REFERENCES

- [1] Django-Speckbit videos
- [2] Full Stackment videos