

# Guest House Management System

An aerial photograph of the New York City skyline at dusk. The sky is a mix of dark purple, blue, and orange. The city is densely packed with skyscrapers, many of which are illuminated with their lights. The Hudson River is visible on the right side of the image.

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**The project intends to  
provide a solution to  
implement the Guest  
House Management  
System, using a database  
and web pages to interact  
with the database.**

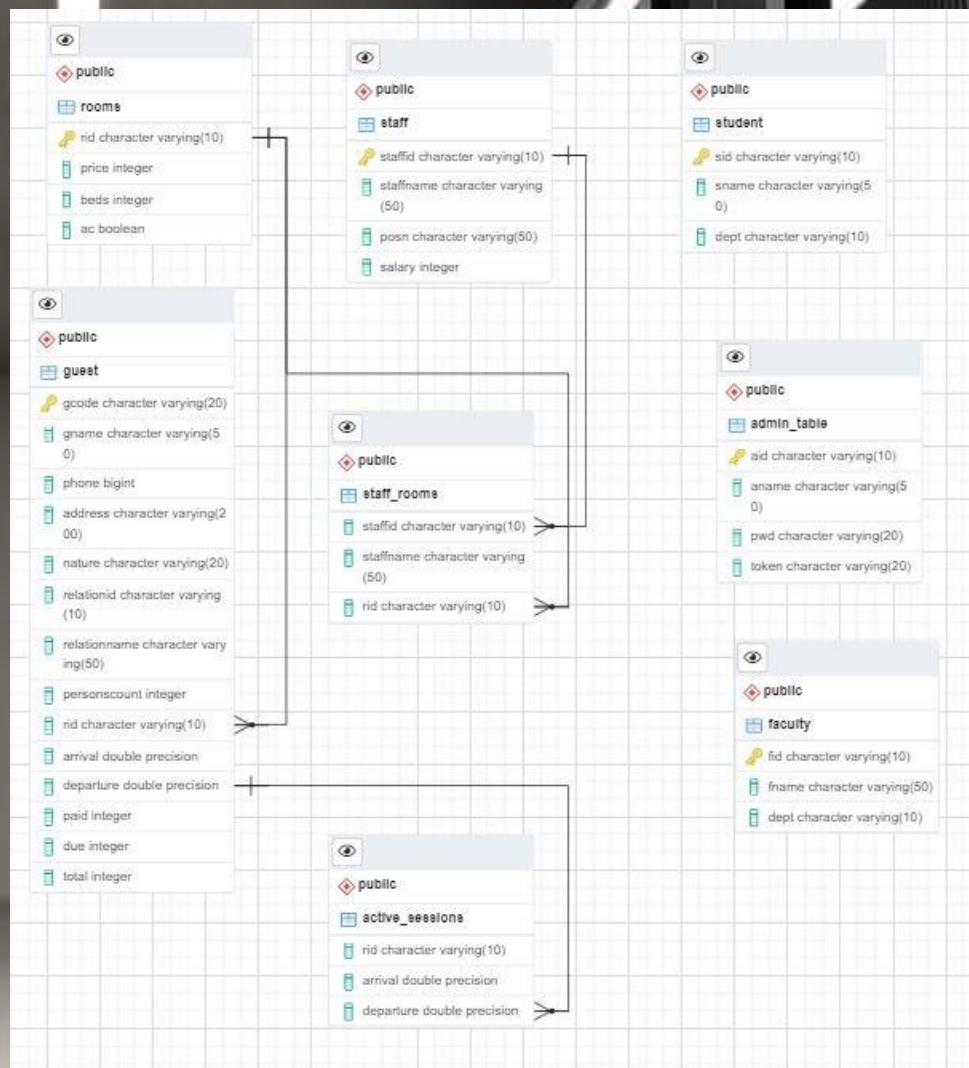


## *Tools Used*

**PostgreSQL  
10.15**

**pgAdmin 4.30  
(GUI)**

*SCHEMA DIAGRAM*



- ❖ A sequence is a user defined schema bound object that generates a sequence of numeric values.
- ❖ Sequences are frequently used in many databases because many applications require each row in a table to contain a unique value and sequences provides an easy way to generate them.

```
CREATE SEQUENCE GUEST_Code
  INCREMENT 1
  MINVALUE 1
  MAXVALUE 9223372036854775807
  START 1
  CACHE 1;

ALTER TABLE Guest ALTER COLUMN GCode SET DEFAULT TO_CHAR(nextval('GUEST_Code'::regclass),'GC'fm0000');

CREATE SEQUENCE STAFF_Code
  INCREMENT 1
  MINVALUE 1
  MAXVALUE 9223372036854775807
  START 1
  CACHE 1;

ALTER TABLE Staff ALTER COLUMN StaffID SET DEFAULT TO_CHAR(nextval('STAFF_Code'::regclass),'SF'fm0000');
```

A trigger is a stored procedure in database which automatically invokes whenever a special event in the database occurs. For example, a trigger can be invoked when a row is inserted into a specified table or when certain table columns are being updated.

```
--setRelationName
CREATE OR REPLACE FUNCTION setRelationName ()
  RETURNS trigger
  LANGUAGE plpgsql

AS
$$
BEGIN
  UPDATE Guest
  SET RelationName= FName
  FROM Faculty
  WHERE RelationID= FID AND Nature= 'Faculty' AND RelationName IS NULL;

  UPDATE Guest
  SET RelationName= SName
  FROM Student
  WHERE RelationID= SID AND Nature= 'Student' AND RelationName IS NULL;

  RETURN NEW;

END;
$$;

CREATE TRIGGER Relation_Name
  AFTER INSERT OR UPDATE
  ON Guest
  FOR EACH ROW
  EXECUTE PROCEDURE setRelationName ();
```



An aerial photograph of the New York City skyline at dusk. The sky is a mix of dark purple, blue, and orange. The city is densely packed with skyscrapers, many of which are illuminated with their interior lights. The Empire State Building is prominent in the center, with its top lit in red and green. The Hudson River is visible in the background, and the city extends to the horizon.

# FRONTEND



## *Tools Used*

### HTML

Describing the structure of the information in a webpage

### C++

Deals with elements color, font, layout, etc

### REACTJS

Allows developers to create large web applications which changes data without reloading

```

<Base
title="Login Page"
description="A page for admin to login"
className="container2"
>
  <div className="stu">
    <div className="row text-dark rounded">
      <div className="col-md-8 offset-md-2">
        {
          loadingMessage()
        }
        {
          errorMessage()
        }
        {
          loginForm()
        }
        {
          performRediret()
        }
      </div>
    </div>
  </div>
</Base>

```

```

.stu{
  font-family: Georgia;
  font-size: 1.5em;
  background: #FFFFFF;
  padding-top: 35px;
  padding-bottom: 35px;
}

```

```

.container2{
  padding-left: 10px;
  padding-right: 10px;
  margin-right: 300px;
  margin-left: 300px;
  padding-top: 35px;
  padding-bottom: 35px;
  shape-margin: 25%;
  background: #BBA6B1;
}

```

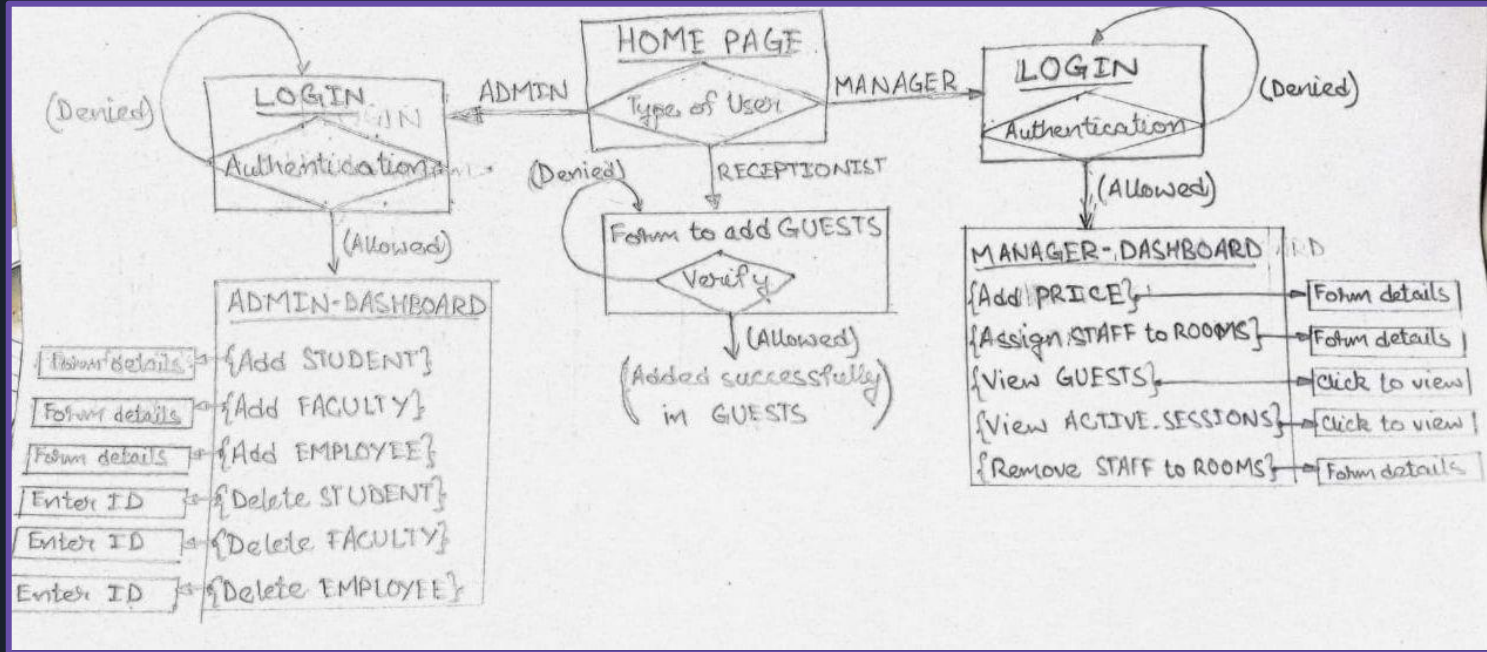
*Form and its corresponding HTML and CSS codes*

Username

Password



# SITE MAPS & ACTIONS





Thank  
you