

# **3D HOUSE MODELING IN VIRTUAL REALITY**

## **GROUP MEMBERS**

## **ENROLLMENT NO.**

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***CLASS:-*** CE 5

# USER\_MASTER

| FIELD        | DATATYPE     | CONSTRAINTS | DESCRIPTION                        |
|--------------|--------------|-------------|------------------------------------|
| User_Id      | Number(4)    | Primary Key | User_id must be required           |
| U_name       | Varchar2(20) | Not null    | User name is required              |
| Password     | Varchar2(10) | Not null    | Login password is must be required |
| Firstname    | Char(10)     | Not null    | Firstname of user                  |
| Lastname     | Char(10)     | Not null    | Lastname of user                   |
| Email_id     | Varchar2(40) | Primary Key | Email_id of User                   |
| Gender       | Char(6)      |             | Gender of user                     |
| Mobile_no    | Number(10)   | Primary Key | Contact Number of User             |
| Device_id    | Number(6)    | Primary key | Device_id must be required         |
| Device_brand | Char(20)     |             | Brand name of device               |

|                |              |          |                                     |
|----------------|--------------|----------|-------------------------------------|
| Device_type    | Varchar2(10) | Not null | Device type of user                 |
| Device_model   | Varchar2(10) |          | Model no. of device                 |
| Device_iemi_no | Varchar2(10) |          | IEMI no. of device                  |
| Internet_type  | Varchar2(10) |          | Type of internet used in device     |
| Device_OS      | Char(30)     | Not null | OS used in device                   |
| GCM_id         | Text         |          | GCM(Google cloud messaging) id used |

**OBJECT\_MASTER**

| FIELD  | DATATYPE  | CONSTRAINTS | DESCRIPTION             |
|--------|-----------|-------------|-------------------------|
| Obj_Id | Number(6) | Primary key | Obj_Id must be required |

|            |               |          |                         |
|------------|---------------|----------|-------------------------|
| Obj_name   | Varchar2(10)  | Not null | Name of the object      |
| Img_path   | Varchar2(100) | Not null | Path of the image saved |
| Obj_Height | Number(4)     | Not null | Height of the object    |
| Obj_Width  | Number(4)     | Not null | Width of the object     |
| Obj_depth  | Number(4)     | Not null | Depth of the object     |
| Obj_remark | Text          |          | Remarks                 |

**MODEL\_MASTER**

| FIELD   | DATATYPE  | CONSTRAINTS | DESCRIPTION               |
|---------|-----------|-------------|---------------------------|
| ID      | Number(6) | Primary key | Model_id must be required |
| User_Id | Number(6) | Foreign key | Id of user from           |

|                 |           |             |                                 |
|-----------------|-----------|-------------|---------------------------------|
|                 |           |             | user_master<br>table            |
| Created_on      | Date      |             | Date of<br>creation             |
| Created_by      | NUMBER(6) | FOREIGN KEY | ID FROM<br>USER_MASTER<br>TABLE |
| Modify_on       | Date      |             | Date of<br>modification         |
| Modify_by       | NUMBER(6) | FOREIGN KEY | ID FROM<br>USER_MASTER<br>TABLE |
| Mod_Name        | Char(10)  | Primary Key | Name of the<br>model            |
| Mod_description | Text      |             | Description<br>given of model   |

**MODEL\_DETAILS**

| FIELD       | DATATYPE  | CONSTRAINTS | DESCRIPTION                         |
|-------------|-----------|-------------|-------------------------------------|
| ID          | NUMBER(6) | PRIMARY KEY | ID MUST BE REQUIRED                 |
| OBJ_ID      | NUMBER(6) | FOREIGN KEY | ID of object_master table           |
| Mod_Id      | Number(6) | Foreign key | Id of model from MODEL_MASTER table |
| Pos_x       | Number(3) | Not null    | X-axis of model                     |
| Pos_y       | Number(3) | Not null    | y-axis of model                     |
| Pos_z       | Number(3) | Not null    | z-axis of model                     |
| Height_y    | Number(3) | Not null    | Height of y-axis                    |
| Width_x     | Number(3) | Not null    | Width of x-axis                     |
| Depth_z     | Number(3) | Not null    | Depth of z-axis                     |
| Mod_Opacity | Number(3) | Not null    | Transparency of model(0 OR 1)       |

COLOR\_MASTER

| FIELD    | DATATYPE    | CONSTRAINTS | DESCRIPTION                      |
|----------|-------------|-------------|----------------------------------|
| Col_Id   | Number(6)   | Primary Key | Id of the color must be required |
| Col_Name | Char(10)    | Not null    | Name of color                    |
| Hex_code | Varchar2(6) | Not null    | Hexadecimal code for color       |

TYPE\_MASTER

| FIELD       | DATATYPE  | CONSTRAINTS | DESCRIPTION         |
|-------------|-----------|-------------|---------------------|
| Type_Id     | Number(6) | Primary Key | Id must be required |
| Type_Name   | Char(10)  | Not null    | Type of object      |
| Type_remark | Char(500) |             | Remarks             |

PATTERN\_MASTER

| FIELD     | DATATYPE      | CONSTRAINTS | DESCRIPTION                 |
|-----------|---------------|-------------|-----------------------------|
| Patn_Id   | Number(6)     | Primary Key | Pattern id must be required |
| Patn_Name | Char(10)      | Not null    | Pattern name                |
| Patn_Img  | Varchar2(100) | Not null    | Image pattern path          |

**TEXTURE\_MASTER**

| FIELD    | DATATYPE      | CONSTRAINTS | DESCRIPTION                 |
|----------|---------------|-------------|-----------------------------|
| Tex_Id   | Number(6)     | Primary Key | Texture id must be required |
| Tex_Name | Char(10)      | Not null    | Texture name                |
| Tex_Img  | Varchar2(100) | Not null    | Texture image path          |



NOTES\_DES

| FIELD         | DATATYPE  | CONSTRAINTS | DESCRIPTION                          |
|---------------|-----------|-------------|--------------------------------------|
| Note_Id       | Number(6) | Primary Key | Id must be required                  |
| Note_Des      | Char(40)  |             | Description of the notes             |
| Mod_Detail_Id | Number(6) | Foreign Key | Id of model from table MODEL_DETAILS |

MODEL\_DESIGN

| FIELD | DATATYPE  | CONSTRAINTS | DESCRIPTION |
|-------|-----------|-------------|-------------|
| ID    | NUMBER(6) | PRIMARY KEY | ID MUST BE  |

|               |           |             |   |
|---------------|-----------|-------------|---|
|               |           |             | REQUIRED.                               |
| Design_Id     | Number(6) | Primary Key | Id must be required                     |
| Mod_Detail_Id | Number(6) | Foreign Key | Id of model from table<br>MODEL_DETAILS |
| Side_No       | Number(2) | Primary Key | Different sides of object               |
| Col_Id        | Number(6) | Foreign Key | Id from table<br>COLOR_MASTER           |
| Pat_Id        | Number(6) | Foreign Key | Id from table<br>PATTERN_MASTER         |
| Tex_Id        | Number(6) | Foreign Key | Id from table<br>TEXTURE_MASTER         |
| Type_Id       | Number(6) | Foreign Key | Id of type from table<br>TYPE_MASTER    |

|  |  |  |         |
|--|--|--|---------|
|  |  |  | TYPE_ID |
|--|--|--|---------|