**Name: Payal Priyadarshini**
**Project Name: Housing Agency- Real Estate Project**

**Project Proposal :**

I would like to make a PHP Project for a Housing Agency (similar to Zoopla). I will keep a minimalistic design (look and feel) and will focus more on the workflow and implementation.

I will be using Apache NetBeans as my IDE and myPHPAdmin as the database. In Netbeans, in the Terminal -> Change directory to Project folder (c/xampp/htdocs/Payal_Priyadarshini_PHP_Project/)-> gulp browser-sync -> This should open in browser

**The logo:**
The logo has been created by me in Adobe Illustrator. I used a heart for home and squinted eyes for the search for house.

**Template Design:**
I have created my own template for the project as I could not find an appropriate template online. I have created my own static template. The template presently displays dummy data which later will be made dynamic.

The following web pages have been created:

**index.php:** The home page. The top consists of the Search Panel with criteria on it to select and submit. These criterias are for searching houses. The criterias are 1. For sale/for rent 2. City/Postcode 3. Min Price 4. Max Price. After clicking Submit button, the matching houses are displayed in the Search Results section. The house picture is clickable.

**Housedetails.php:** This page is displayed by clicking the house picture in the search results grid. This page displays details about the clicked house. It consists of pictures of the house(carousel). The two tabs: Details and Floor Plan. The Details tab gives details about the house. It also has 2 buttons: Add to favourites and Contact Property Dealer.

**Add to favourites:** When clicked, it adds the house as a favourite for the user.
**Contact Property Dealer:** This will be a dummy button for sending message to property dealer.

**Signin.php:** This page will be used to login for Admins, Property Dealer & Customers based on user. After logging in, the user enters the Content management section of the website based on Email and password.

**Content Management System:**
An extra navigation is added after the user logs in successfully.

**viewHouses:** Displays the houses depending on the user's role. More details in the 'User Roles & Rights' section.

**viewUsers:** Displays the user information in the form of a grid.

**add/edit House:** Add/edit a house.

**add/edit User:** Add/edit a user.

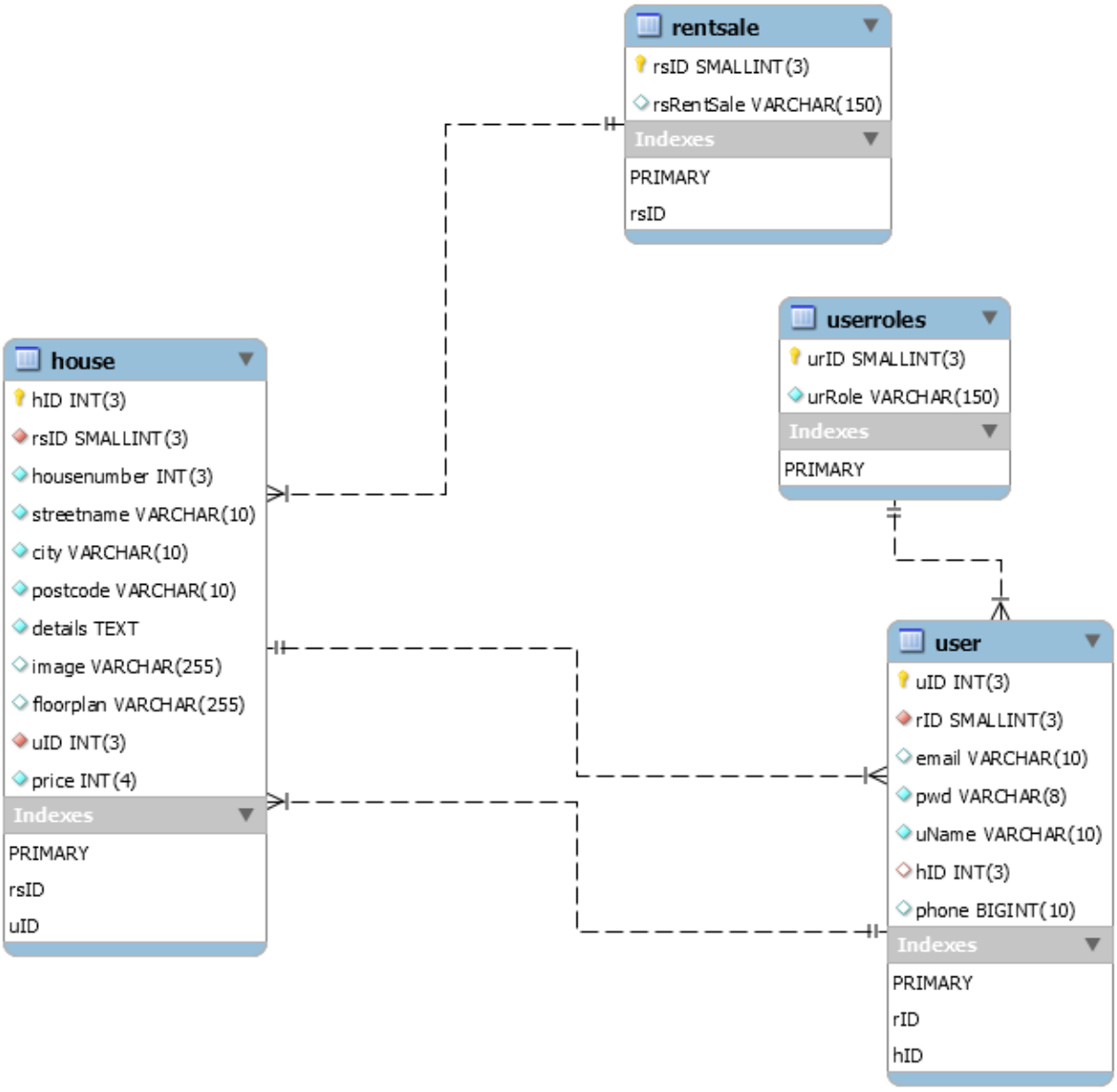
**User Roles and Rights:**
The user Roles can be: Admin, Property Dealer and Customer.

**Admin Rights:**
If a user logs in with an 'Admin' role, he will get full access to the Content Management System. He can Add/Edit/View/Delete Users and also Add/Edit/View/Delete Houses.

**Property Dealer Rights:**
If a user logs in with 'Property Dealer' Role, he will get partial access to the Content Management System. He can Add/Edit/View/Delete only those Houses which he is the Property Dealer for.

**Customer Rights:**
If a user logs in with 'Customer' role, he will get minimum access to the CMS. He can just view the house added as his favourite.

Please find below the ERD Diagram for the Database:




**The SQL Queries to create Database: (From generated SQL script)**

-- phpMyAdmin SQL Dump
-- version 4.8.5
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: Oct 01, 2020 at 11:08 AM
-- Server version: 10.1.38-MariaDB
-- PHP Version: 7.3.

--
-- Database: `home_search`
--

```
CREATE DATABASE home_search

-- --------------------------------------------------------

--
-- Table structure for table `house`
--

CREATE TABLE `house` (
  `hID` int(3) UNSIGNED NOT NULL,
  `rsID` smallint(3) UNSIGNED NOT NULL,
  `housenumber` int(3) UNSIGNED NOT NULL,
  `streetname` varchar(10) COLLATE utf8_unicode_ci NOT NULL,
  `city` varchar(10) COLLATE utf8_unicode_ci NOT NULL,
  `postcode` varchar(10) COLLATE utf8_unicode_ci NOT NULL,
  `details` text COLLATE utf8_unicode_ci NOT NULL,
  `image` varchar(255) COLLATE utf8_unicode_ci DEFAULT NULL,
  `floorplan` varchar(255) COLLATE utf8_unicode_ci DEFAULT NULL,
  `uID` int(3) UNSIGNED NOT NULL,
  `price` int(4) UNSIGNED NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

--
-- Dumping data for table `house`
--

INSERT INTO `house` (`hID`, `rsID`, `housenumber`, `streetname`, `city`, `postcode`, `details`, `image`,
`floorplan`, `uID`, `price`) VALUES
(1, 1, 45, 'Osier Way', 'London', 'CB15DE', 'Details to fill in', 'image URL', 'floor plan URL', 1, 455),
(2, 2, 4, 'Gherkin Wa', 'Birmingham', 'CB229DY', 'Details to fill in', 'image URL', 'floor plan URL', 7,
300),
(3, 1, 5, 'Amiye Way', 'London', 'CB72GH', 'Details to fill in', 'image URL', 'floor plan URL', 4, 290),
(4, 2, 33, 'Nostalgia ', 'Birmingham', 'CB8FD6', 'Details to fill in', 'image URL', 'floor plan URL', 6, 415),
(5, 1, 76, 'Harring Cl', 'London', 'CB76FD', 'Details to fill in', 'image URL', 'floor plan URL', 5, 500),
(6, 2, 94, 'Nearly Gat', 'Birmingham', 'CB13SD', 'Details to fill in', 'image URL', 'floor plan URL', 3, 700),
(7, 1, 2, 'Skegness C', 'London', 'CB58FG', 'Details to fill in', 'image URL', 'floor plan URL', 2, 200);

-- --------------------------------------------------------

--
-- Table structure for table `rentsale`
--

CREATE TABLE `rentsale` (
  `rsID` smallint(3) UNSIGNED NOT NULL,
  `rsRentSale` varchar(150) COLLATE utf8_unicode_ci DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

--
-- Dumping data for table `rentsale`
--
```

```
INSERT INTO `rentsale` (`rsID`, `rsRentSale`) VALUES
(1, 'Rent'),
(2, 'Sale');

-- --------------------------------------------------------

--
-- Table structure for table `user`
--

CREATE TABLE `user` (
  `uID` int(3) UNSIGNED NOT NULL,
  `rID` smallint(3) UNSIGNED NOT NULL,
  `email` varchar(10) COLLATE utf8_unicode_ci DEFAULT NULL,
  `pwd` varchar(8) COLLATE utf8_unicode_ci NOT NULL,
  `uName` varchar(10) COLLATE utf8_unicode_ci NOT NULL,
  `hID` int(3) UNSIGNED DEFAULT NULL,
  `phone` bigint(10) UNSIGNED DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

--
-- Dumping data for table `user`
--

INSERT INTO `user` (`uID`, `rID`, `email`, `pwd`, `uName`, `hID`, `phone`) VALUES
(1, 1, 'p@p.com', 'admin', 'admin', NULL, 123),
(2, 2, 'p@p.com', 'pd', 'property d', 1, 123),
(3, 3, 'p@p.com', 'cust', 'cust1', 1, 123),
(4, 2, 'p@p.com', 'pd', 'property d', 2, 123),
(5, 3, 'p@p.com', 'cust', 'cust2', 2, 123),
(6, 3, 'p@p.com', 'cust', 'cust3', 1, 123),
(7, 2, 'p@p.com', 'pd', 'property d', 3, 123);

-- --------------------------------------------------------

--
-- Table structure for table `userroles`
--

CREATE TABLE `userroles` (
  `urID` smallint(3) UNSIGNED NOT NULL,
  `urRole` varchar(150) COLLATE utf8_unicode_ci NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;

--
-- Dumping data for table `userroles`
--

INSERT INTO `userroles` (`urID`, `urRole`) VALUES
(1, 'Admin'),
```

```
(2, 'Property Dealer'),
(3, 'Customer');

--
-- Indexes for dumped tables
--

--
-- Indexes for table `house`
--
ALTER TABLE `house`
  ADD PRIMARY KEY (`hID`),
  ADD KEY `rsID` (`rsID`),
  ADD KEY `uID` (`uID`);

--
-- Indexes for table `rentsale`
--
ALTER TABLE `rentsale`
  ADD PRIMARY KEY (`rsID`),
  ADD KEY `rsID` (`rsID`);

--
-- Indexes for table `user`
--
ALTER TABLE `user`
  ADD PRIMARY KEY (`uID`),
  ADD KEY `rID` (`rID`),
  ADD KEY `hID` (`hID`);

--
-- Indexes for table `userroles`
--
ALTER TABLE `userroles`
  ADD PRIMARY KEY (`urID`);

--
-- AUTO_INCREMENT for dumped tables
--

--
-- AUTO_INCREMENT for table `house`
--
ALTER TABLE `house`
  MODIFY `hID` int(3) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=8;

--
-- AUTO_INCREMENT for table `rentsale`
--
ALTER TABLE `rentsale`
  MODIFY `rsID` smallint(3) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
```

```
--
-- AUTO_INCREMENT for table `user`
--
ALTER TABLE `user`
  MODIFY `uID` int(3) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=8;

--
-- AUTO_INCREMENT for table `userroles`
--
ALTER TABLE `userroles`
  MODIFY `urID` smallint(3) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;

--
-- Constraints for dumped tables
--

--
-- Constraints for table `house`
--
ALTER TABLE `house`
  ADD CONSTRAINT `house_ibfk_1` FOREIGN KEY (`rsID`) REFERENCES `rentsale` (`rsID`),
  ADD CONSTRAINT `house_ibfk_2` FOREIGN KEY (`uID`) REFERENCES `user` (`uID`);

--
-- Constraints for table `user`
--
ALTER TABLE `user`
  ADD CONSTRAINT `user_ibfk_1` FOREIGN KEY (`rID`) REFERENCES `userroles` (`urID`),
  ADD CONSTRAINT `user_ibfk_2` FOREIGN KEY (`hID`) REFERENCES `house` (`hID`);
COMMIT;
```