Project: Bug Tracking System
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Total No. of Entities: 3
1) Employee (Types: Admin or Expert )
2) Customer
3) Bug
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Total No. of Modules: 4
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A) Login & Signup Module
B) Admin Module
C) Customer Module
D) Expert Module
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Functionalities of the module:-
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A) Login Module

B) Admin Module

    Customer Services -  Manage  Services   ( View, Search )
    1.Customer: View All
    2.Customer: Search - by Customer Name
    3.Customer: Search - by Customer Login Id

    Employee Services -  Manage Employee (Admin & Expert types)(Add, View, Search, Edit, Activate/Deactivate)
    4.Employee: Add New (Admin or Expert)
    5.Employee: View All
    6.Employee: Search - by Employee Name
    7.Employee: Search - by Employee Login Id
    8.Employee: Search - by Employee Type
    9.Employee: Activate or Deactivate
    10.Employee: Change Password

     Bug Services -  Manage Bug( View, Search, AssignBugToExpert )
    11.Bug: View All
    12.Bug: Search by bugId
    13.Bug: Search by status
    14.Bug: Search by custLoginId
    15.Bug: Assign to Expert
    16.Logout

C) Customer Module
    1) Create Account
    2) Update Account
    3) Post New Bug
    4) View All Bugs
    5) Search Bugs based on status

     6) View Bug Solution
     7) Change Password

D) Expert Module
     1) View Assigned Bug
     2) Filter Assigned Bugs based on status
     3) Solve the Bug
     4) Change Password


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SQL Scripts for creating Tables of the Project
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Table-01: employee (To store ADMIN or EXPERT type of employees)
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```
create table employee
(
empLoginId varchar(10) primary key,
empPassword varchar(20),
empType varchar(20) ,
empName varchar(45),
empPhone varchar(10),
empEmail varchar(45),
empStatus varchar(20) DEFAULT 'ACTIVE'
);

insert into employee(empLoginId, empPassword, empType, empName, empPhone, empEmail )
values('AD1001', 'password', 'ADMIN', 'Priti Singh', '9998887776', 'help@admin.com');

insert into employee(empLoginId, empPassword, empType, empName, empPhone, empEmail )
values('EX3001', 'password', 'EXPERT', 'DemoUser', '4444444', 'expert@admin.com');
```


Table-02: customer
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```
create table customer
(
custLoginId varchar(10) primary key,
custPassword varchar(20),
custName varchar(45),
custAge int,
custPhone varchar(10),
custEmail varchar(45)
);

insert into customer(custLoginId, custPassword, custName, custAge, custPhone, custEmail )
values('CU2001', 'password', 'Priya', 21, '9998887776', 'priya@demo.com');

insert into customer(custLoginId, custPassword, custName, custAge, custPhone, custEmail )
values('CU2002', 'password', 'Anjali', 22, '9998887776', 'priya@demo.com');
```

Table-03: bug
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```
create table Bug
( bugId int primary key auto_increment,
bugPostingDate datetime default now(),
custLoginId varchar(10) NOT NULL,
```

```
bugStatus varchar(20) default 'New Bug',
productName varchar(45) NOT NULL,
bugDesc text NOT NULL,
expertAssignedDate datetime default NULL,
expertLoginId varchar(10) default NULL,
bugSolvedDate datetime default NULL,
solution text default NULL
);


insert into Bug(custLoginId, productName, bugDesc)
values('CU2001', 'Laptop', 'Screen is flickring');

insert into Bug(custLoginId, productName, bugDesc)
values('CU2001', 'Mobile', 'Keyboard not working.');

insert into Bug(custLoginId, productName, bugDesc)
values('CU2002', 'Laptop', 'Wifi connection issues');
```