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**Objective**

Objective of this application is to suggest and recommend user according to their searches and preferences in which they are interested.

**Introduction**

Search Box Application is the web application where the User can Search Contents about Places, Product& Study material. According to the searches and preference provided by the user some content is also recommended.

To make the application secure we design an authentication login page to provide credentials of admin and user such as username and password. After the authentication successful admin and user are directed to their Panels

This web application is developed using ASP.NET as a front end technology and Microsoft SQL Server as a backend.

**Database Schema**

* **Tables**

1. User Personal Data : -

create table users\_personal\_data

(

fname varchar(100) not null,

lname varchar(100) not null,

username as fname+' '+lname,

dob varchar(20) not null,

gender varchar(10) not null,

email varchar(100) unique,

mobile varchar(10) not null,

userid varchar(100) primary key not null,

user\_type varchar(10) default 'user',

user\_status varchar(10) default 'deactive',

reg\_date varchar(50) not null,

reg\_time varchar(50) not null,

security\_ques varchar(100) not null,

security\_ans varchar(50) not null

)

1. User Login Data : -

create table users\_login

(

fname varchar(100) not null,

lname varchar(100) not null,

username as fname+' '+lname,

userid varchar(100) primary key not null foreign key references users\_personal\_data(userid),

pswd varchar(100) not null,

user\_type varchar(10) default 'user',

user\_status varchar(10) default 'deactive',

)

1. User Preference : -

create table user\_pref

(

userid varchar(100) primary key not null foreign key references users\_personal\_data(userid),

pref1 varchar(100) not null,

pref2 varchar(100) not null,

pref3 varchar(100) not null

)

1. Complaint Table : -

create table complaint\_data

(

comp\_no int identity(100,1),

comp\_id as 'CMPL'+RIGHT('0'+CAST(comp\_no as VARCHAR(5)),6)PERSISTED,

userid varchar(100) default'user' not null,

comp\_type varchar(30) not null,

complaint\_desc varchar(1000) not null

)

1. Feedback Table : -

create table feedback\_data

(

fb\_no int identity(100,1),

fb\_id as 'FDK'+RIGHT('0'+CAST(fb\_no as VARCHAR(5)),6)PERSISTED,

userid varchar(100) default'user' not null,

fb\_rating int not null,

fb\_comment varchar(1000) not null

)

1. Product Table : -

create table ecommerce\_product

(

id int identity(1000,1) primary key,

product\_id as UPPER('PRD')+CAST(id as varchar(5)),

product\_name varchar(100) not null,

product\_price varchar(50) not null,

product\_type varchar(50) not null,

product\_photo image

)

1. Places Data Table :

create table places\_information

(

place\_id int identity(1000,1) primary key,

place\_name varchar(100) not null,

place\_desc varchar(500) not null,

place\_type varchar(100) not null,

time\_to\_reach varchar(50) not null,

distance varchar(50) not null,

mode\_of\_transportation varchar(50),

place\_photo varbinary(max)

)

1. Study Material Table : -

create table study\_material

(

id int identity(1,1) primary key,

topic\_name varchar(50) not null,

topic\_desc varchar(1000) not null,

topic\_type varchar(50),

topic\_photo varbinary(max)

)

* **Stored Procedures**

1. Get Place List:-

create procedure show\_place

as

begin

select \* from fav\_place;

end;

1. Get Study Topic List : -

create procedure show\_topic

as

begin

select \* from fav\_topic;

end;

1. Get Products List

create procedure show\_product

as

begin

select \* from fav\_product;

end;

1. Get Security Questions List : -

create procedure show\_ques

as

begin

select \* from security\_ques;

end;

1. Insert User Login Data:-

create procedure insert\_users\_login\_data

@fname varchar(50),

@lname varchar(50),

@usid varchar(50),

@pass varchar(50)

as

begin

insert into users\_login(fname,lname,userid,pswd,user\_status) values(@fname,@lname,@usid,@pass,'active');

end;

1. User Authentication:-

create procedure check\_user

@userid varchar(50),

@pass varchar(50)

as

begin

select username,user\_type,user\_status from users\_login where userid=@userid and pswd=@pass and user\_status='active';

end;

1. Add New Product:-

create procedure Add\_New\_Product

@product\_name varchar(50),

@product\_price varchar(50),

@product\_type varchar(50),

@product\_photo varbinary(max)

as

begin

insert into ecommerce\_product values(@product\_name,@product\_price,@product\_type,@product\_photo);

end;

1. Add New Place Data:-

create procedure Add\_New\_Place

@place\_name varchar(100),

@place\_desc varchar(500),

@place\_type varchar(100),

@time\_to\_reach varchar(50),

@distance varchar(50),

@mode\_of\_trans varchar(50),

@place\_photo varbinary(max)

as

begin

insert into places\_information values(@place\_name,@place\_desc,@place\_type,@time\_to\_reach,@distance,@mode\_of\_trans,@place\_photo);

end;

1. Insert User Feedback:-

create procedure Insert\_Feedback

@usid varchar(100),

@rate int,

@comment varchar(1000)

as

begin

insert into feedback\_data values(@usid,@rate,@comment);

end;

1. Insert User Complaint Data:-

create procedure Insert\_Complaint

@usid varchar(100),

@comp\_type varchar(100),

@comp\_desc varchar(1000)

as

begin

insert into complaint\_data values(@usid,@comp\_type,@comp\_desc);

end;

1. Retrieve User Profile Data:-

create procedure Retrive\_User\_Profile

@userid varchar(50)

as

begin

declare @fname varchar(50)=(select fname from users\_personal\_data where userid=@userid),

@lname varchar(50)=(select lname from users\_personal\_data where userid=@userid),

@dob varchar(50)=(select dob from users\_personal\_data where userid=@userid),

@mob varchar(10)=(select mobile from users\_personal\_data where userid=@userid),

@email varchar(100)=(select email from users\_personal\_data where userid=@userid),

@pref1 varchar(100)=(select pref1 from user\_pref where userid=@userid),

@pref2 varchar(100)=(select pref2 from user\_pref where userid=@userid),

@pref3 varchar(100)=(select pref3 from user\_pref where userid=@userid);

select @fname'Fname',@lname'Lname',@dob'DOB',@mob'Mobile',@email'Email',@pref1'P1',@pref2'P2',@pref3'P3';

end;

1. Update User Preference:-

create procedure Update\_Preference\_Profile

@usid varchar(100),

@p1 varchar(100),

@p2 varchar(100),

@p3 varchar(100)

as

begin

update user\_pref set pref1=@p1 where userid=@usid;

update user\_pref set pref2=@p2 where userid=@usid;

update user\_pref set pref3=@p3 where userid=@usid;

select 'success';

end;

1. Insert User Login Data:-

create procedure insert\_users\_login\_data

@fname varchar(50),

@lname varchar(50),

@usid varchar(50),

@pass varchar(50)

as

begin

insert into users\_login(fname,lname,userid,pswd,user\_status) values(@fname,@lname,@usid,@pass,'active');

end;

1. Insert User Personal Data:-

create procedure Insert\_User\_Personal\_Data

@fname varchar(100),

@lname varchar(100),

@DOB varchar(100),

@gen varchar(100),

@mail varchar(100),

@mob varchar(10),

@usid varchar(100),

@reg\_date varchar(100),

@reg\_time varchar(100),

@que varchar(100),

@ans varchar(100)

as

begin

insert into users\_personal\_data(fname,lname,dob,gender,email,mobile,userid,user\_type,user\_status,reg\_date,reg\_time,security\_ques,security\_ans) values(@fname,@lname,@DOB,@gen,@mail,@mob,@usid,'user','active',@reg\_date,@reg\_time,@que,@ans);

end;

1. Insert User Preference:-

create procedure Insert\_Preference

@usid varchar(50),

@p1 varchar(100),

@p2 varchar(100),

@p3 varchar(100)

as

begin

insert into user\_pref values(@usid,@p1,@p2,@p3);

end;

1. Forget Password :-

create procedure Forgot\_Password

@usid varchar(100),

@que varchar(100),

@ans varchar(100)

as

begin

if((select count(username) from users\_login where userid=@usid )>0)

begin

if((select count(username) from users\_personal\_data where security\_ques=@que and security\_ans=@ans)>0)

begin

declare @fname varchar(100)=(select fname from users\_login where userid=@usid),

@lname varchar(100)=(select lname from users\_login where userid=@usid),

@mob varchar(50)=(select mobile from users\_personal\_data where userid=@usid);

update users\_login set pswd=(UPPER(LEFT(@fname,3))+UPPER(LEFT(@lname,2))+RIGHT(@mob,3)) where userid=@usid;

select 'success';

end

else

begin

select 'fail';

end

end

else

begin

select 'fail';

end

end;

1. Reset Password:-

create procedure Reset\_Password

@usid varchar(100),

@oldpass varchar(100),

@newpass varchar(100)

as

begin

if((select count(username) from users\_login where userid=@usid and pswd=@oldpass )>0)

begin

update users\_login set pswd=@newpass where userid=@usid;

select 'success';

end

else

begin

select 'fail';

end

end;

1. Update User Profile:-

create procedure Update\_Profile

@usid varchar(100),

@fname varchar(100),

@lname varchar(100),

@dob varchar(100),

@mob varchar(10),

@email varchar(100)

as

begin

update users\_login set fname=@fname where userid=@usid;

update users\_login set lname=@lname where userid=@usid;

update users\_personal\_data set fname=@fname where userid=@usid;

update users\_personal\_data set lname=@lname where userid=@usid;

update users\_personal\_data set dob=@dob where userid=@usid;

update users\_personal\_data set mobile=@mob where userid=@usid;

update users\_personal\_data set email=@email where userid=@usid;

end;

1. Searching Records:-

create procedure Search\_Query

@query varchar(100)

as

begin

if((select count(place\_id) from places\_information where place\_name=@query)>0)

begin

select place\_name'Name',place\_desc'Description',place\_type'Type',place\_photo'Photo' from places\_information where place\_name=@query;

select 'success';

end

else if((select count(place\_id) from places\_information where place\_type=@query)>0)

begin

select place\_name'Name',place\_desc'Description',place\_type'Type',place\_photo'Photo' from places\_information where place\_type=@query;

select 'success';

end

else if((select count(product\_id) from ecommerce\_product where product\_name=@query)>0)

begin

select product\_name'Name',product\_price'Description',product\_type'Type',product\_photo'Photo' from ecommerce\_product where product\_name=@query;

select 'success';

end

else if((select count(product\_id) from ecommerce\_product where product\_type=@query)>0)

begin

select product\_name'Name',product\_price'Description',product\_type'Type',product\_photo'Photo' from ecommerce\_product where product\_type=@query;

select 'success';

end

else if((select count(id) from study\_material where topic\_name=@query)>0)

begin

select topic\_name'Name',topic\_desc'Description',topic\_type'Type',topic\_photo'Photo' from study\_material where topic\_name=@query;

select 'success';

end

else if((select count(id) from study\_material where topic\_type=@query)>0)

begin

select topic\_name'Name',topic\_desc'Description',topic\_type'Type',topic\_photo'Photo' from study\_material where topic\_type=@query;

select 'success';

end

else

begin

select '';

select 'fail';

end

end;

1. Update User Preference According to Searches:-

create procedure Update\_Preference

@usid varchar(100),

@pref varchar(100)

as

begin

declare @p2 varchar(100)=(select pref2 from user\_pref where userid=@usid),

@p3 varchar(100)=(select pref3 from user\_pref where userid=@usid);

update user\_pref set pref1=@p2 where userid=@usid;

update user\_pref set pref2=@p3 where userid=@usid;

update user\_pref set pref3=@pref where userid=@usid;

end;

1. Register New User :-

create procedure User\_Registration

@fname varchar(100),

@lname varchar(100),

@DOB varchar(100),

@gen varchar(100),

@mail varchar(100),

@mob varchar(10),

@pass varchar(100),

@reg\_date varchar(100),

@reg\_time varchar(100),

@que varchar(100),

@ans varchar(100)

as

begin

declare @usid varchar(100)=((LOWER(@fname))+LOWER(LEFT(@lname,1))+RIGHT(@DOB,2));

insert into users\_personal\_data(fname,lname,dob,gender,email,mobile,userid,user\_type,user\_status,reg\_date,reg\_time,security\_ques,security\_ans) values(@fname,@lname,@DOB,@gen,@mail,@mob,@usid,'user','active',@reg\_date,@reg\_time,@que,@ans);

insert into users\_login(fname,lname,userid,pswd,user\_status) values(@fname,@lname,@usid,@pass,'active');

if((select count(username) from users\_login where userid=@usid)>0)

begin

if((select count(username) from users\_personal\_data where userid=@usid)>0)

begin

select @usid'UserID','success'"FLAG";

end

else

begin

select 'Non'"UserID",'fail'"FLAG";

end

end

else

begin

select 'Non'"UserID",'fail'"FLAG";

end

end;

create procedure Add\_Study\_Data

@topic\_nm varchar(50),

@topic\_desc varchar(1000),

@topic\_type varchar(50),

@topic\_photo varbinary(max)

as

begin

insert into study\_material values(@topic\_nm,@topic\_desc,@topic\_type,@topic\_photo);

end;

1. Retrieve User Prefernce:-

create procedure Retrieve\_Preference

@usid varchar(100)

as

begin

select pref1'P1',pref2'P2',pref3'P3' from user\_pref where userid=@usid;

end

**Project Workflow Diagram**

v

Remove

Remove

Remove

Add

Add

Add

Study Data

Product Data

Places Data

Complaint View

Feedback View

User Monetization

Admin

Update User Profile

Complaint

Feedback

Home

Searching Facility

User

Register New User

Reset Password

Forget Password

User Login

Searching Facility

SignUp

Login

Home

Search Box Application

**Project Workflow Explanation**

* On the Home page user can directly search about contents.
* User can Register through registration form User ID is mail to the registered Email
* Using user id and password through login form user id directed to User Panel
* In User panel according to preferences set by user some content is recommended
* User can give feedback & complaint for the system to track performance
* Also searching facility is provided on user panel also
* Profile and Preferences can also updated in View Profile section in User Panel
* For Admin Login System is same and after successful login Admin is directed to Admin Panel
* In Admin Panel User monetization, Complaint, Feedback, Places, Product, Study Topic Sections are provide to control the data and helps in modification of Data.

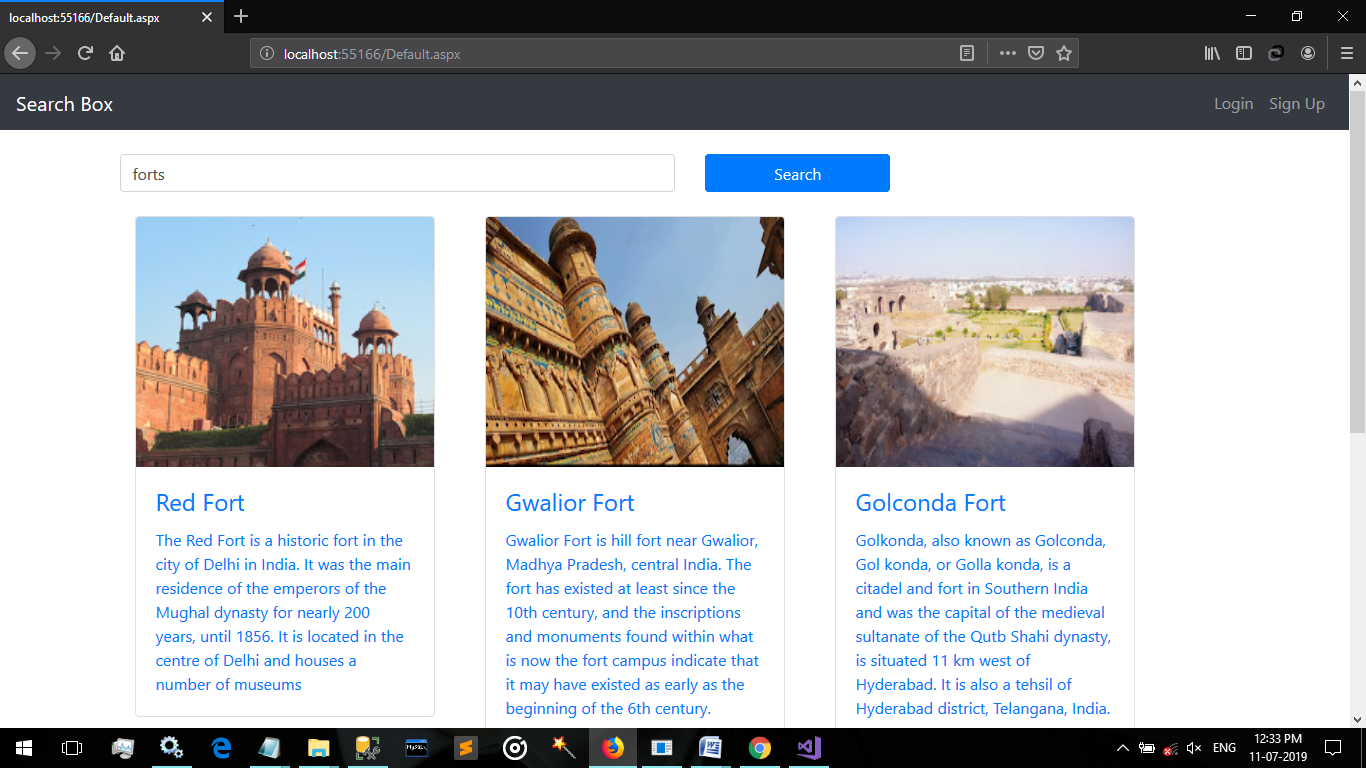
**Modules Description**

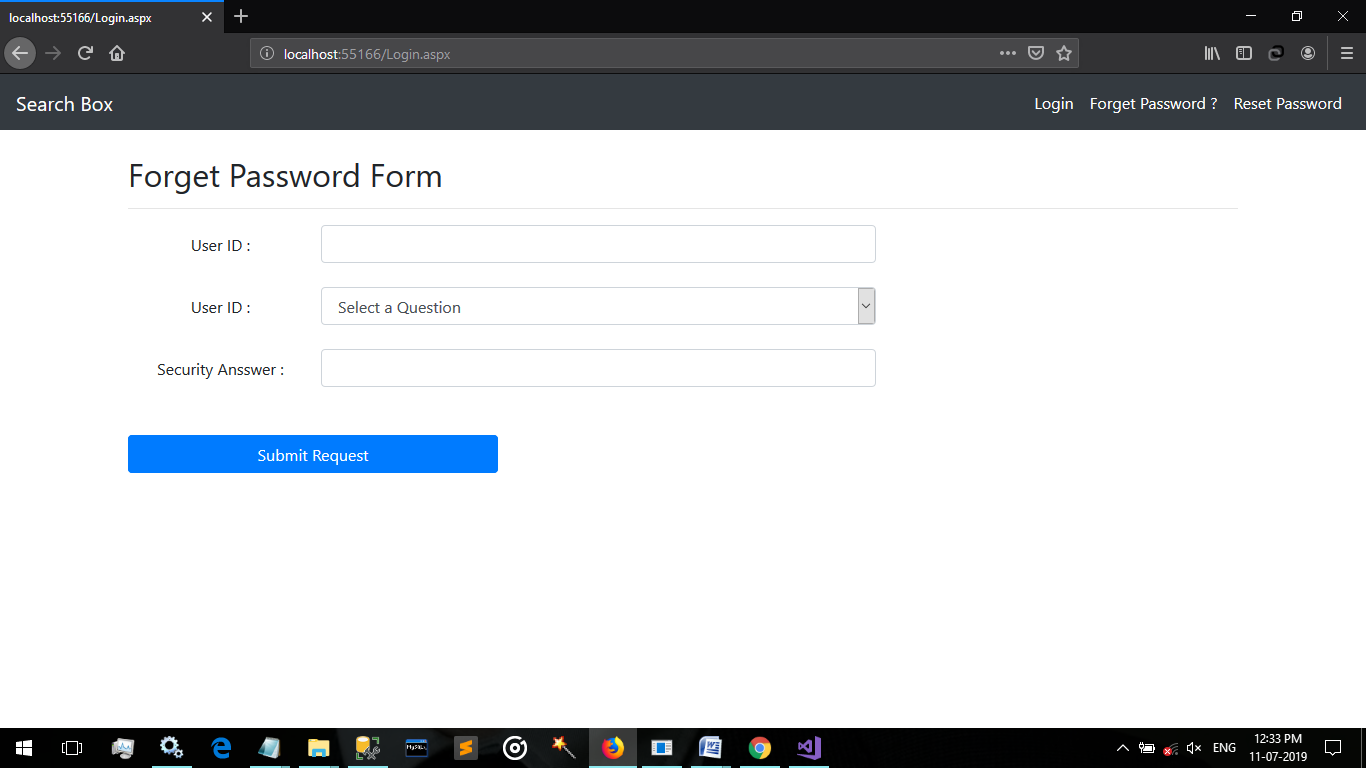
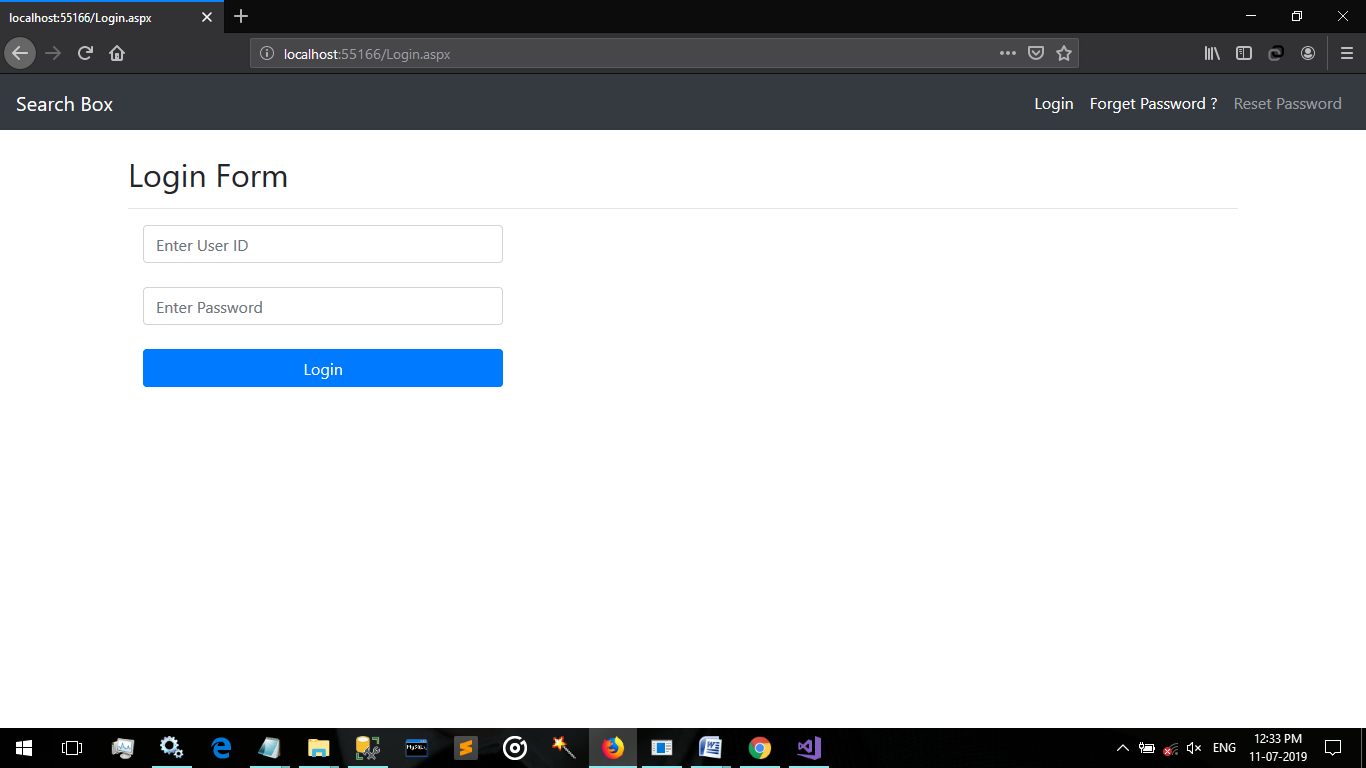
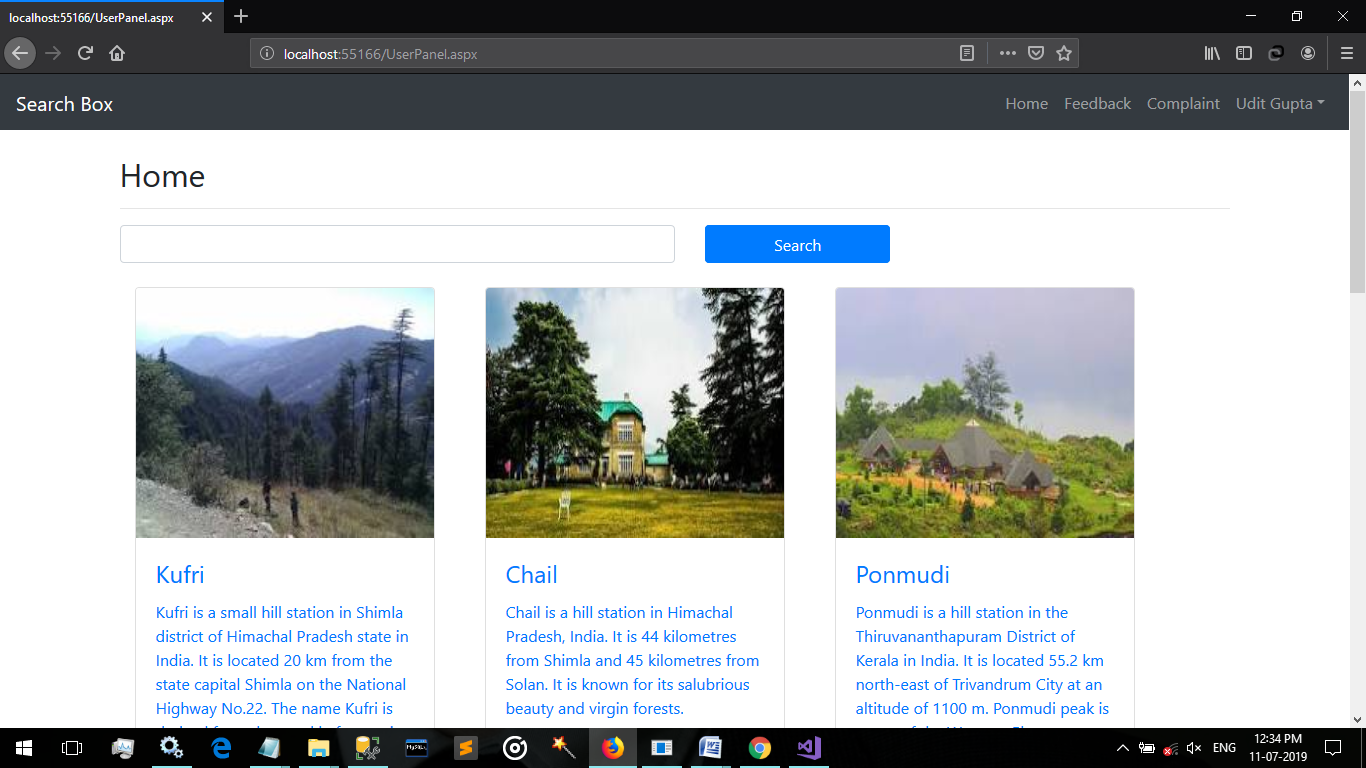
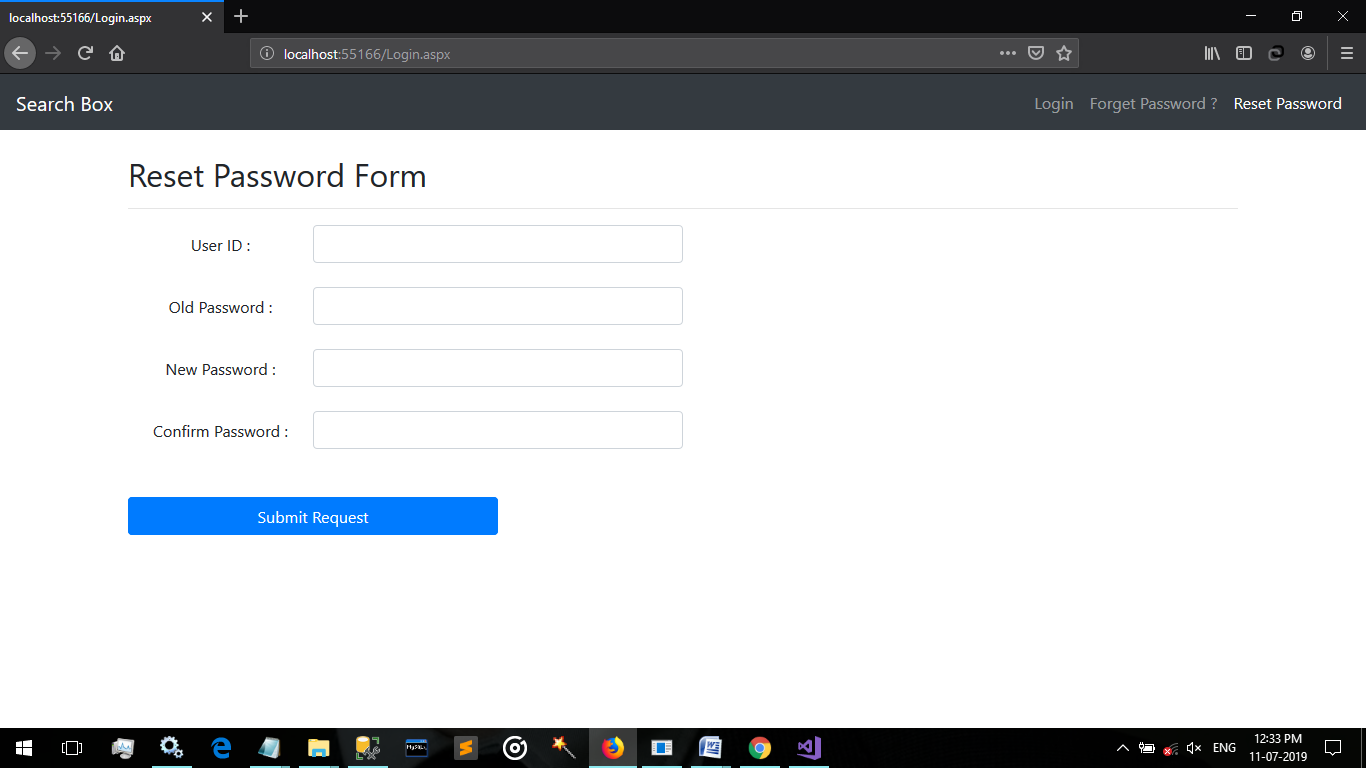
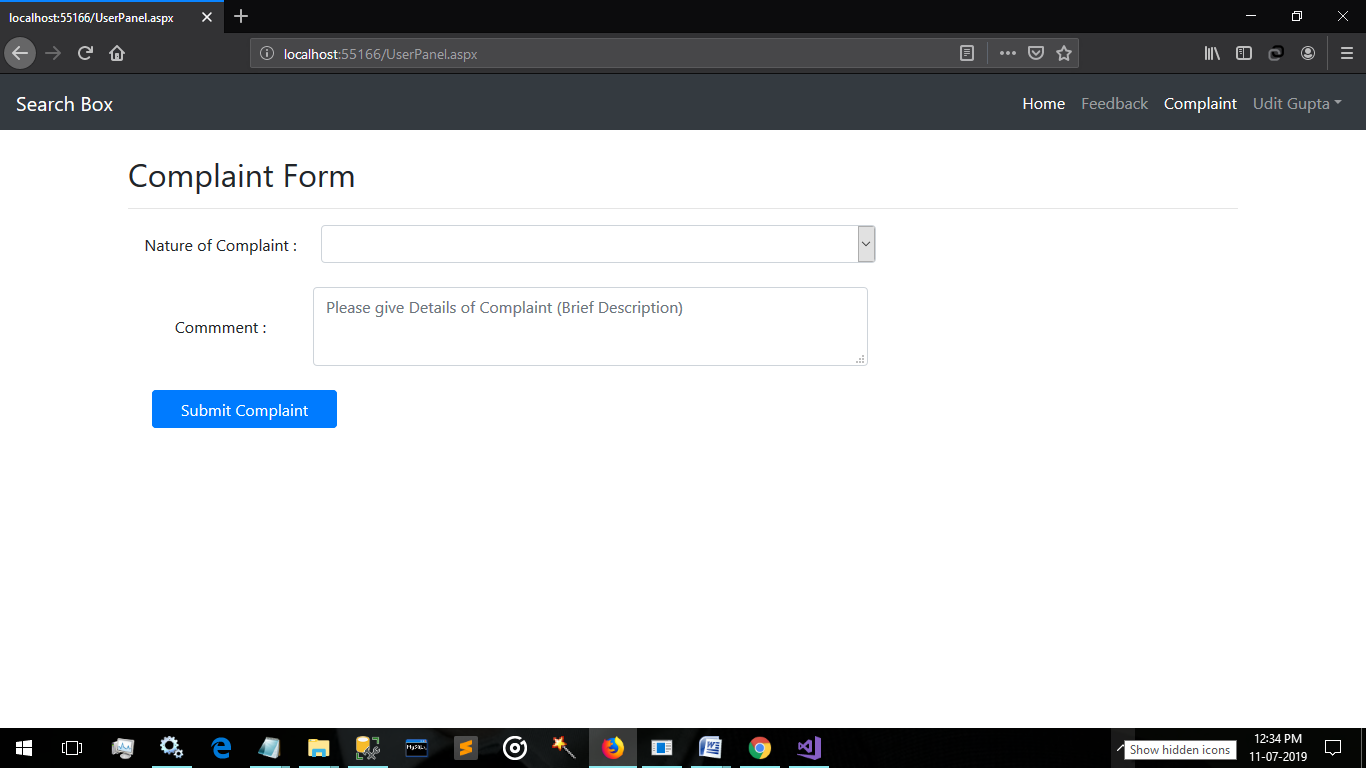
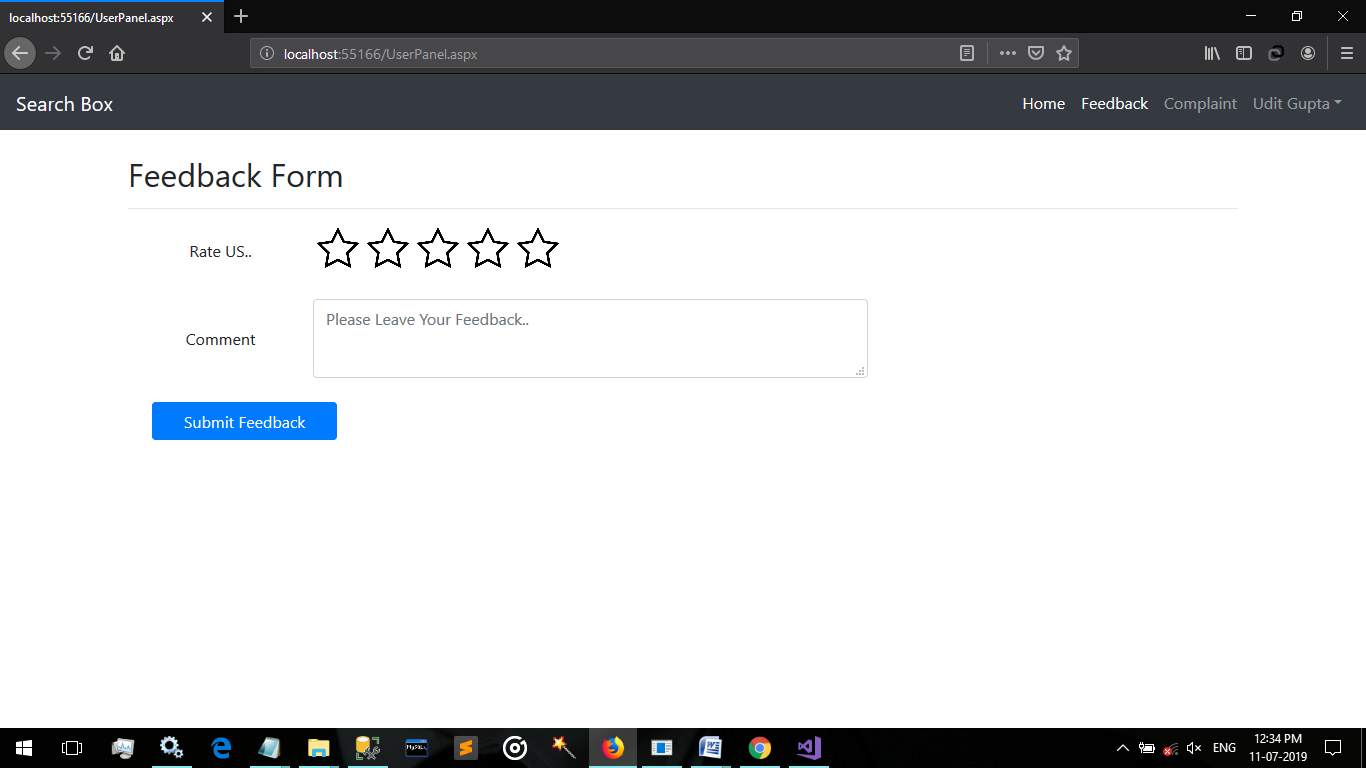
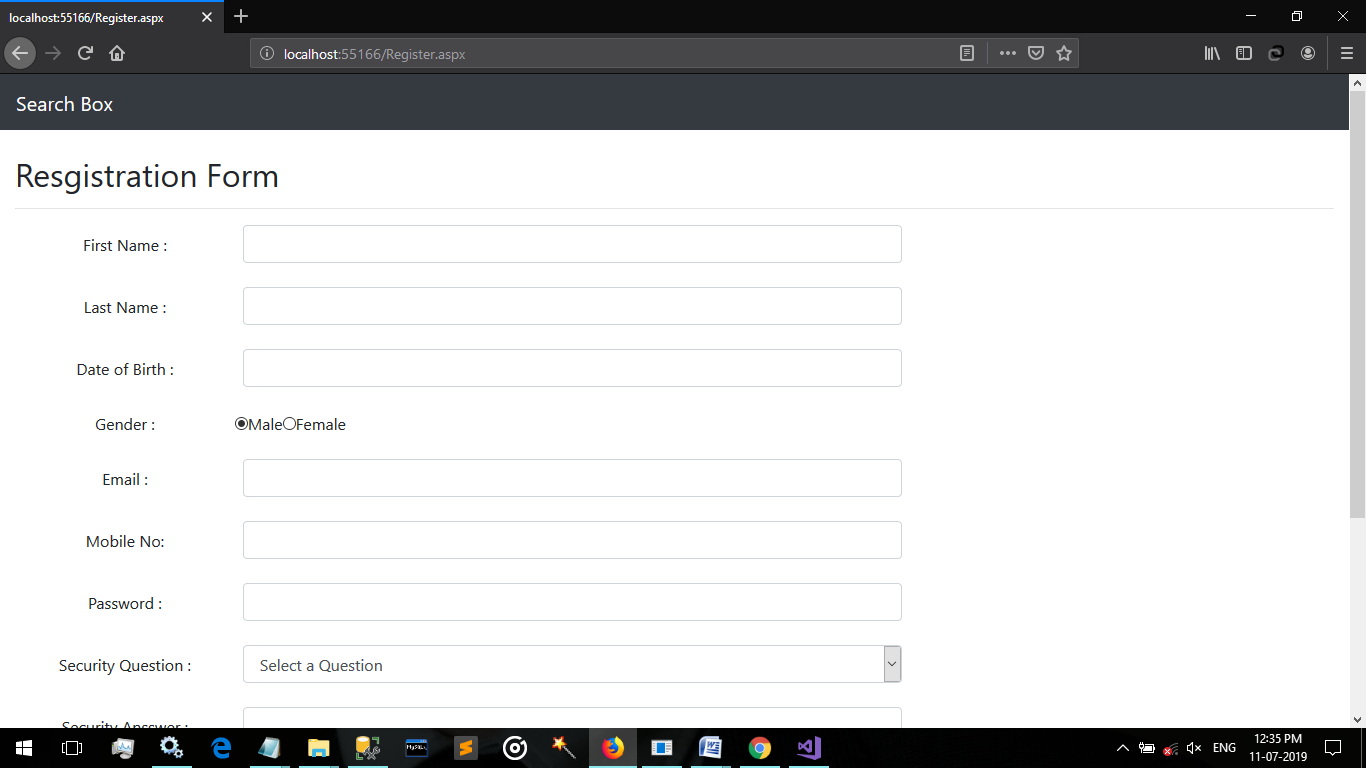
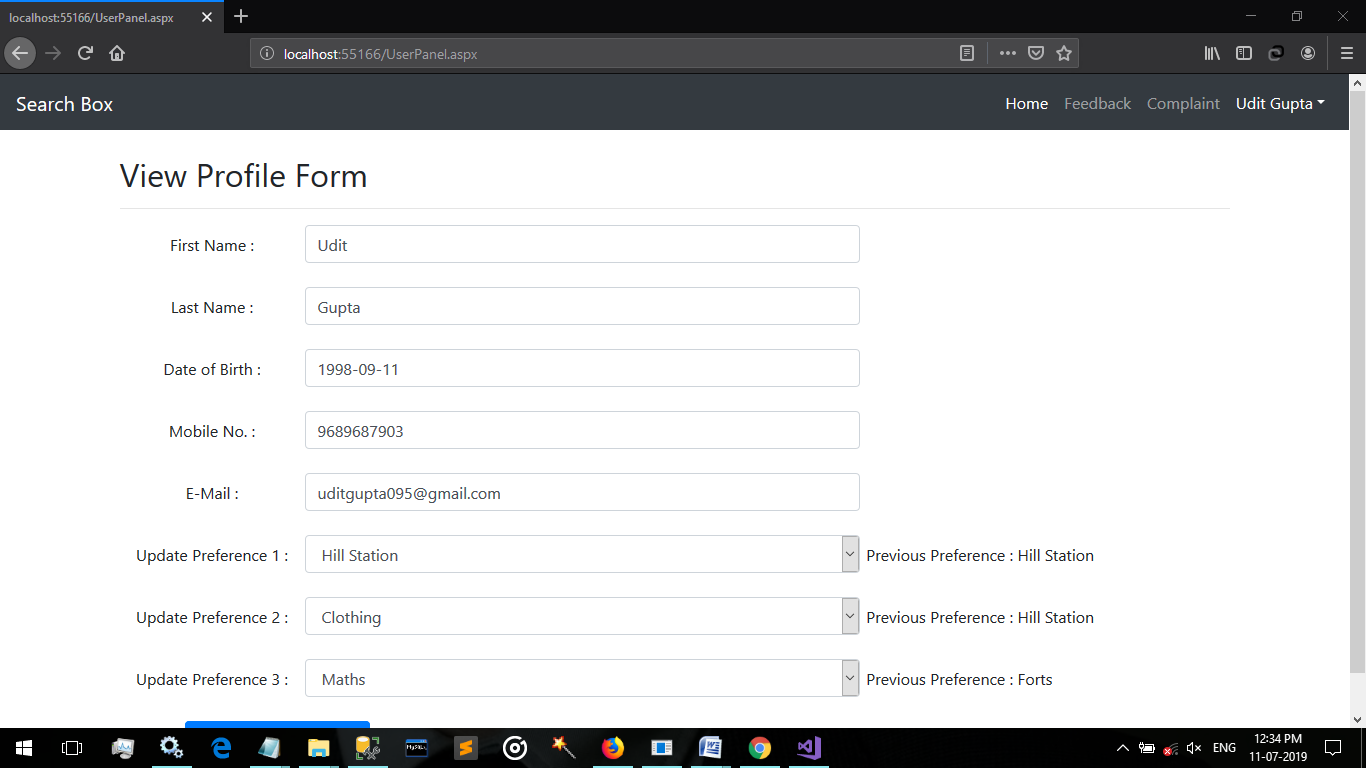
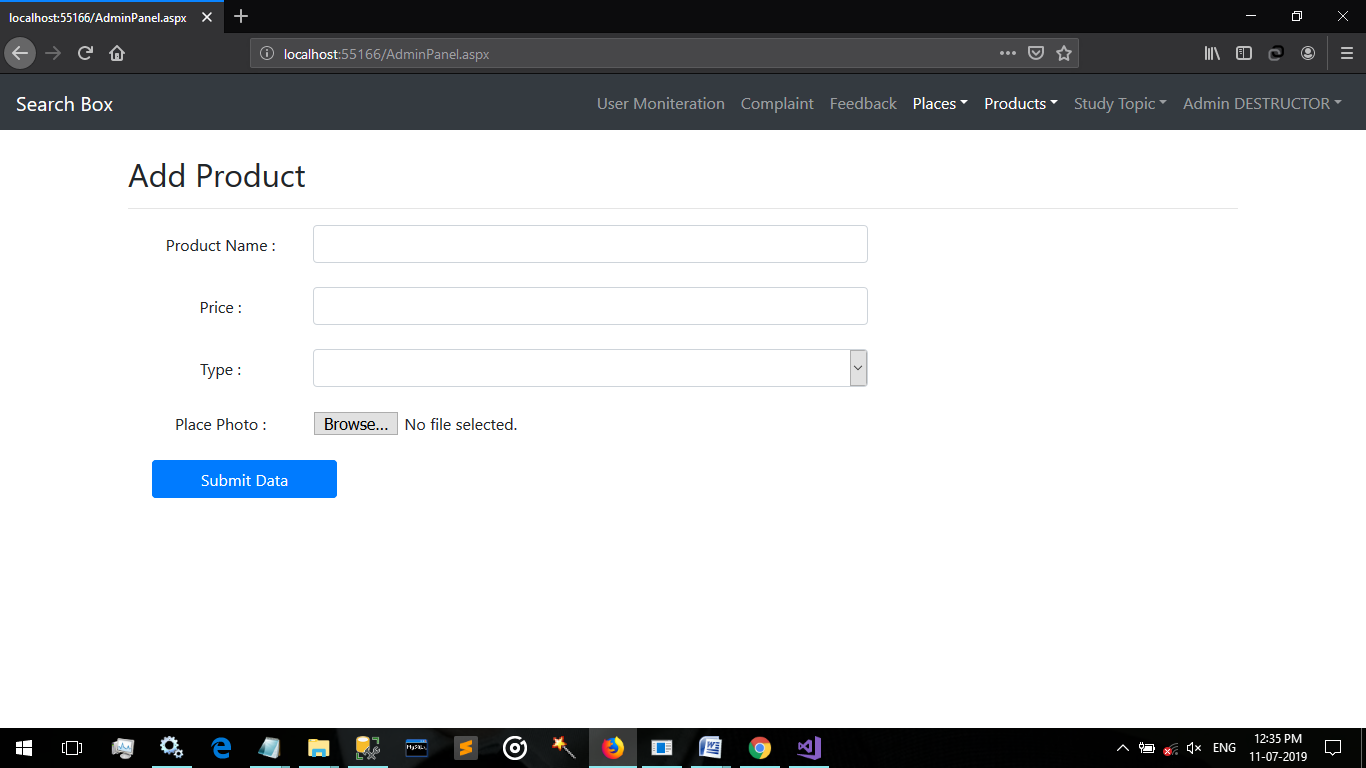
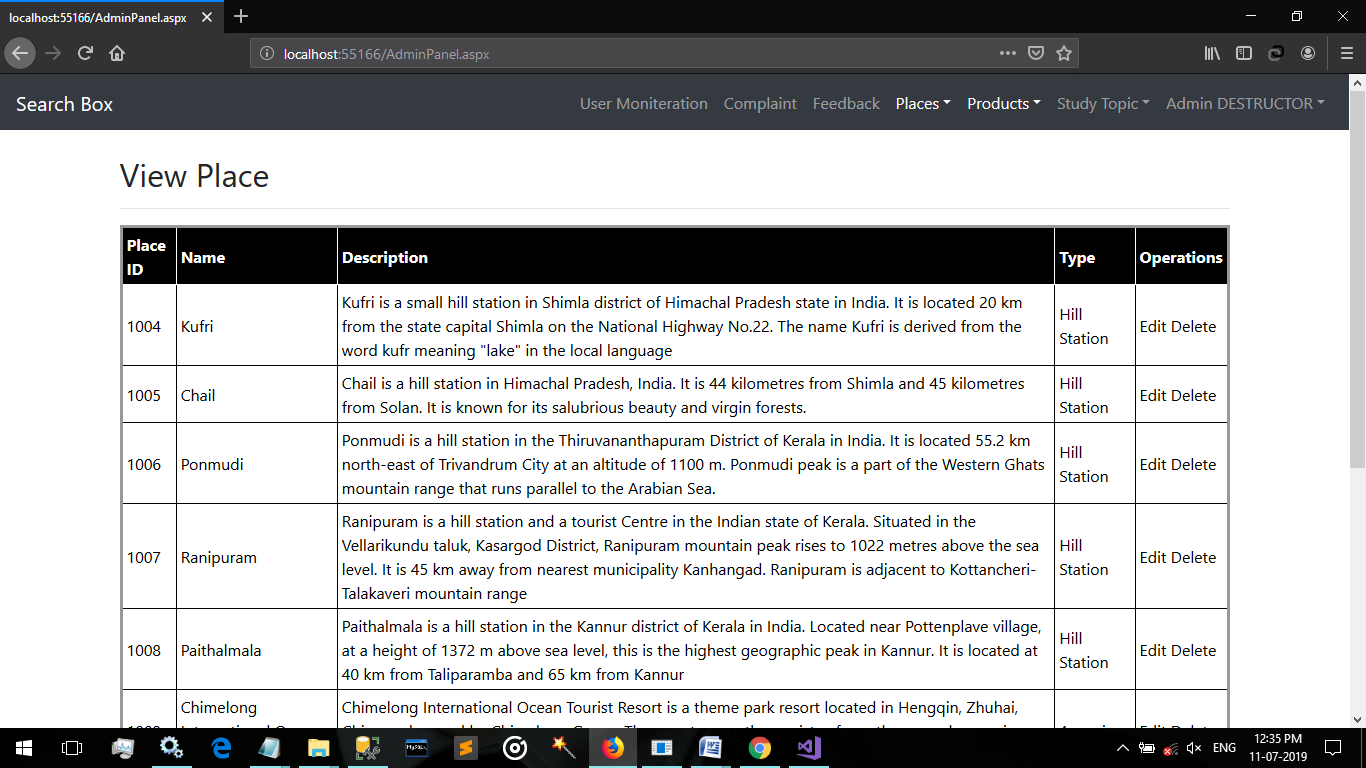
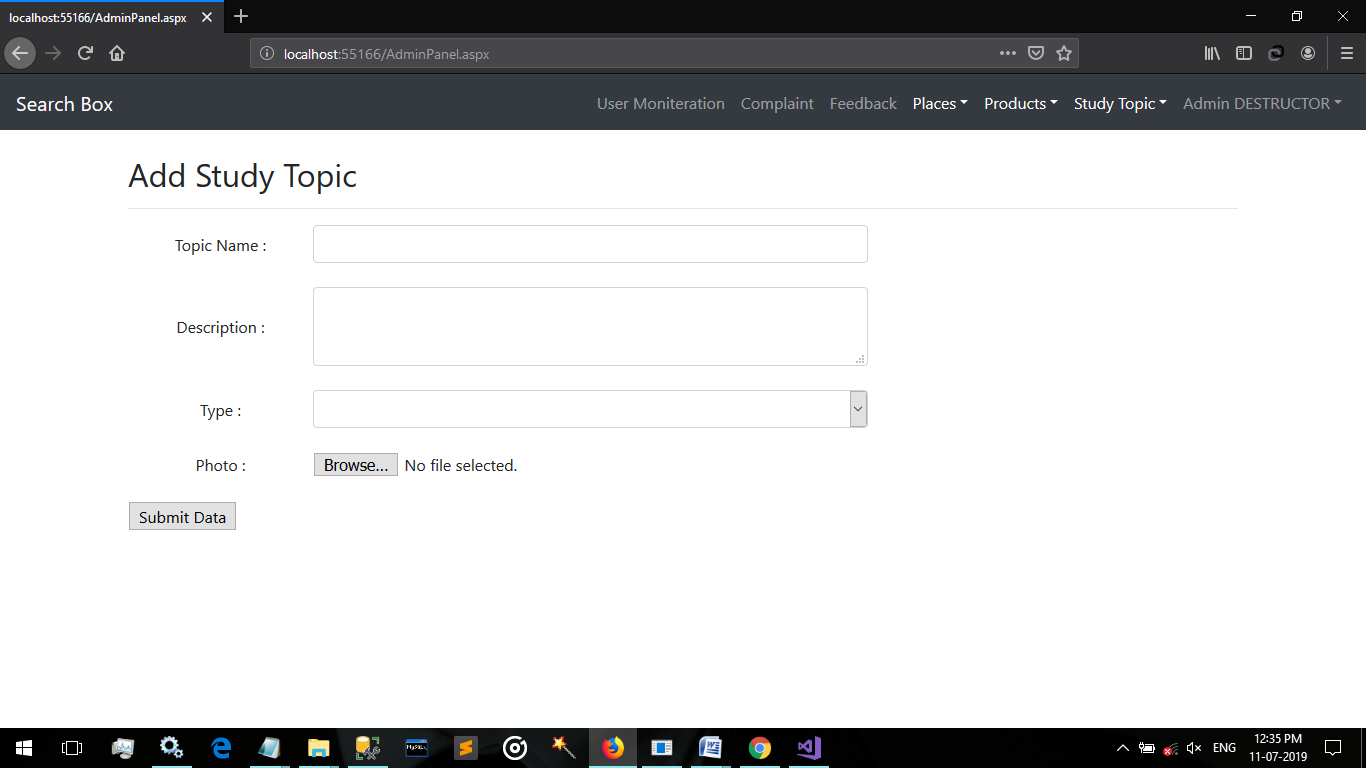
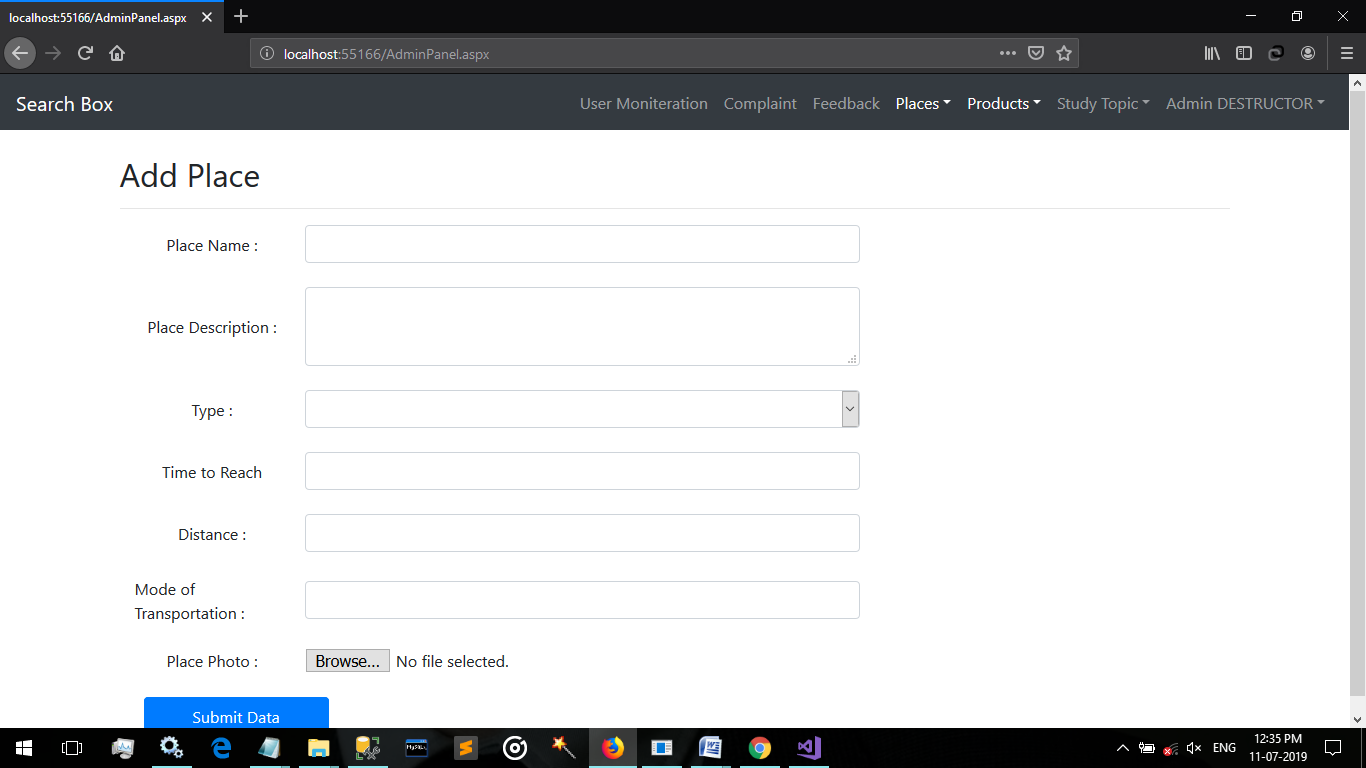
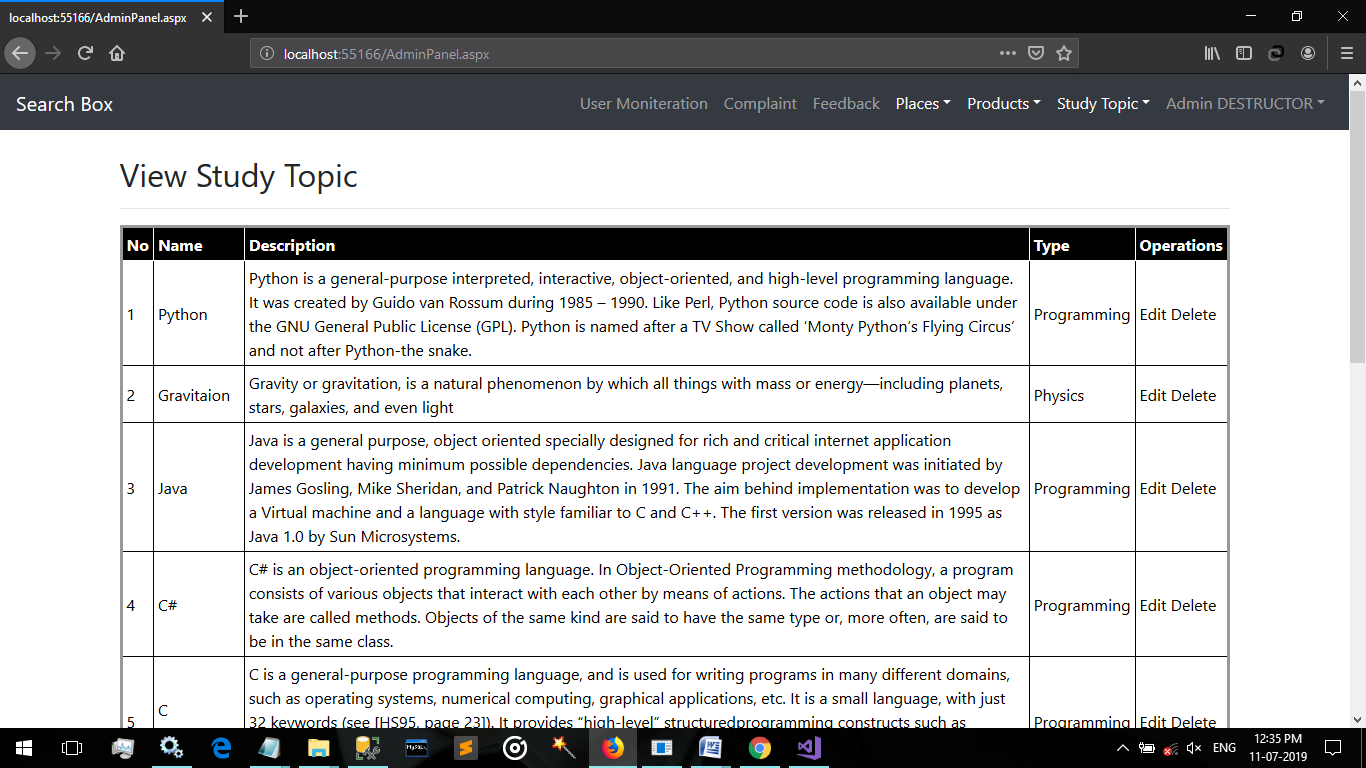
* User Login: - In Login Form user provide ID and password which is checked by a Stored Procedure. And According to the type (user or admin) particular user is directed to appropriate Panel. Any Failure is redirected to again login.
* User Panel: - User can Search about Places, Study Material & Product according to which Preferences are updated. Complaint & Feedback form are provided to give response about the system. Also Profile Update is also provided to change preference according top choice.
* Admin Panel:-Admin is provided full control of system. User Monetization ,Places Data, Study Data, product Data, Complaint, Feedback Data to Monetize the System. Data can be added by the admin about place, study material and product.
* New User Registration: - Registration form is there for new user and User ID is automatically generated and its mail to the user’s registered mail account. A confirmation Email is send to their Mail ID.
* Forget Password: - User can reset the password by answering a Security Question provided at the time of Registration. New password is mail to the Mail ID.
* Reset Password: User can reset the password by providing previous password and new password. A confirmation Email is send to their Mail ID.
* Update User Profile:- User can update their profile and also the preferences as per their choice. . A confirmation Email is send to their Mail ID after successful update.
* Searching:- User can according to their choice for places, study material & products data.
* Recommendation: - According to the preferences data is recommended to the user.

**Technologies Details**

* ASP.NET , Bootstrap 4
* Language :-C#
* Database : -Microsoft SQL Server 2017

**Screenshots**

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**Conclusion**

Search Box Application enables user to Search about Places, product & Study Material and Demonstrated Recommendation system for user to show only user preferred contents.