

Project Report

Introduction: -

Welcome to the world of Smart Cities, where the integration of advanced technologies with urban planning has revolutionized the way we live and interact with our surroundings. Our Java-based Smart City Information System aims to provide a comprehensive platform for citizens and visitors alike, catering to the unique needs of administrators, students, businessmen, and tourists. Whether you seek to explore the city's rich history, discover exciting business opportunities, or simply navigate through its bustling streets, our project provides an all-encompassing solution for all your information needs. So, get ready to embark on a journey of discovery and experience the city like never before with our Smart City Information System!

Aim: -

The main aim of the project is to provide an platform that will help to get information about city to any new visitor like tourist, student or businessman

Scope: -

- It can be accessed by unlimited number of users.
- Each user will be assigned a different set of permissions for each module of the system.
- The user can have access to all the information in the site with limited services and provide extra services to registered users.
- Only Super Admin can delete any of the user id from the database;
- Confirmation of end user identity and will verify which users are authorized to receive Support. Maintain history of each customer and their related Maintain history of each customer and their related information.
- Only registered members will be provided with communication between user, experts and general public through poll/chat/emails.
- Administrator is created in the system already.
- This site is best designed to be useful through internet to people of different places.

Modules and Description: -

The Project has four module: -

1) **Admin:** - It has further two different modules

i) **Super Admin Segment:**

The Super Admin segment is designed to provide full control over the system's information. It is accessible only to authorized personnel who are designated as Super Admin. The Super Admin can access all the functionalities provided by the Admin module, including the ability to add, delete, and modify information in the system.

One of the most important features of the Super Admin segment is its ability to delete information from the system. This feature is critical in maintaining the integrity and accuracy of the system's information. Only the Super Admin has the authority to delete information from the system. This ensures that only authorized personnel can modify the system's data.

ii) **Sub Admin Segment:**

The Sub Admin segment is designed to provide restricted access to the system's information. It is accessible to personnel who are designated as Sub Admin. The Sub Admin can add information to the system but cannot delete or modify any information. This feature ensures that the system's data remains accurate and reliable.

One of the primary benefits of the Sub Admin segment is its ability to enhance teamwork and collaboration. Sub Admin personnel can work together to manage the system's data and share information with each other. This feature ensures that the system's data is managed efficiently and effectively.

2) **Student:** -

The Smart City Information System project is a comprehensive solution that aims to provide a centralized platform for students to access information about various aspects of their academic life in the city. One of the key modules of this project is the Student module, which is further divided into two segments: Local Student and Foreign Student.

i) **Local Student Segment:** -

The Local Student segment of the Student module allows local students to access information about their academic life in the city. This segment provides students with the ability to view their course schedules, grades, and other related details. In addition to this, students can also access important information about the academic calendar, upcoming events, and other related details.

ii) **Foreign Student Segment:** -

The Foreign Student segment of the Student module is designed specifically for foreign students studying in the city. This segment provides students with information about various aspects of their academic life in the city, including their Hotels, Institutes, and many other sectors.

3) **Businessman :**

The Smart City Information System is an innovative project aimed at providing comprehensive information on various aspects of a city, such as industries, hotels, police stations, and transportation. The project has a module named "Businessman," which caters to the needs of both local and foreign businessmen. This module is further divided into two segments, namely Local Businessman and Foreign Businessman.

i) Local Businessman:

The Local Businessman segment of the module provides information on various businesses and industries operating in the city. This segment enables local businessmen to access information related to the latest market trends, consumer preferences, and business opportunities. The system provides detailed information about the location, size, and scope of various industries and businesses in the city.

Additionally, the Local Businessman segment allows users to search for hotels, restaurants, and other hospitality services in the city. Users can view ratings and reviews of various businesses and make informed decisions accordingly. They can also access information on police stations and transportation services to ensure their safety and security while traveling within the city.

ii) Foreign Businessman:

The Foreign Businessman segment of the module caters to the needs of international businessmen who are interested in investing in the city. This segment provides them with detailed information on various industries and businesses that operate in the city. Foreign businessmen can use this information to analyze the market trends, consumer preferences, and business opportunities in the city.

The system provides foreign businessmen with access to important data such as the economic policies, tax regulations, and legal framework of the city. This information can help them make informed decisions while investing in the city. Additionally, the system provides information on hotels, restaurants, and other hospitality services in the city, ensuring that foreign businessmen can find accommodation and dining options that meet their standards.

4) Tourist: -

The tourist module is an essential component of our smart city information system project. It provides tourists with comprehensive information about the city, ensuring that they have a positive experience and can make informed decisions about their itinerary. The module is user-friendly and easy to navigate, ensuring that tourists can quickly find the information they need.

i) Local Tourist Segment: -

The local tourist segment of the tourist module is designed to cater to the needs of tourists who are familiar with the city. It provides them with essential information about industries, hotels, police stations, transportation, tourist places, etc. This segment also includes details about upcoming events, such as festivals, concerts, and cultural events. Local tourists can access this information without any restrictions, ensuring that they have all the necessary details to plan their trip.

ii) Foreign Tourist Segment: -

The foreign tourist segment of the tourist module is designed to cater to the needs of tourists who are unfamiliar with the city. It provides them with essential information about industries,

hotels, police stations, transportation, tourist places, etc. This segment also includes details about the city's history, culture, and customs, ensuring that foreign tourists can understand and appreciate the city's unique identity. Foreign tourists can access this information without any restrictions, ensuring that they have a positive experience and can make informed decisions about their itinerary.

Database tables has been used in this project

```
mysql> show tables;
+-----+
| Tables_in_smartcity |
+-----+
| allinfo              |
| foreignbusinessman   |
| foreignstudent       |
| foreigntourist       |
| localbusinessman     |
| localstudent         |
| localtourist         |
| subadmin             |
| superadmin           |
+-----+
```

Foreignbusinessman, foreignstudent, foreigntourist

```
mysql> desc foreignbusinessman;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| fid   | varchar(5) | YES  |     | NULL    |       |
| fname | varchar(20) | YES  |     | NULL    |       |
| fphoneno | varchar(12) | YES  |     | NULL    |       |
| fcname | varchar(20) | YES  |     | NULL    |       |
| faddress | varchar(20) | YES  |     | NULL    |       |
| fcountry | varchar(20) | YES  |     | NULL    |       |
| fgender | varchar(12) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql> desc foreignstudent;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| fid   | varchar(5) | YES  |     | NULL    |       |
| fname | varchar(20) | YES  |     | NULL    |       |
| fphone | varchar(12) | YES  |     | NULL    |       |
| finsti | varchar(40) | YES  |     | NULL    |       |
| fcountry | varchar(20) | YES  |     | NULL    |       |
| fgender | varchar(12) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)

mysql> desc foreigntourist;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| fid   | varchar(5) | YES  |     | NULL    |       |
| fname | varchar(20) | YES  |     | NULL    |       |
| fphoneno | varchar(12) | YES  |     | NULL    |       |
| faddress | varchar(20) | YES  |     | NULL    |       |
| fcountry | varchar(20) | YES  |     | NULL    |       |
| fgender | varchar(12) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Allinfo

```
mysql> desc allinfo;
```

Field	Type	Null	Key	Default	Extra
info_type	varchar(30)	YES		NULL	
id	varchar(5)	YES		NULL	
name	varchar(20)	YES		NULL	
phoneNo	varchar(20)	YES		NULL	
location	varchar(25)	YES		NULL	

localbusinessman localstudent localtourist

```
mysql> desc localtourist;
```

Field	Type	Null	Key	Default	Extra
lid	int	YES		NULL	
lname	varchar(20)	YES		NULL	
lphoneno	varchar(12)	YES		NULL	
laddress	varchar(40)	YES		NULL	
lgender	varchar(12)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> desc localstudent;
```

Field	Type	Null	Key	Default	Extra
lid	int	YES		NULL	
lname	varchar(20)	YES		NULL	
lphone	varchar(12)	YES		NULL	
linsti	varchar(40)	YES		NULL	
lgender	varchar(12)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> desc localbusinessman;
```

Field	Type	Null	Key	Default	Extra
lid	varchar(5)	YES		NULL	
lname	varchar(20)	YES		NULL	
lphoneno	varchar(12)	YES		NULL	
lcname	varchar(20)	YES		NULL	
laddress	varchar(40)	YES		NULL	
lgender	varchar(12)	YES		NULL	

6 rows in set (0.00 sec)

Superadmin and subadmin

```
mysql> desc superadmin;
```

Field	Type	Null	Key	Default	Extra
suaid	varchar(5)	YES		NULL	
sname	varchar(20)	YES		NULL	
sphoneno	int	YES		NULL	
sexperience	int	YES		NULL	
sgender	varchar(10)	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> desc subadmin;
```

Field	Type	Null	Key	Default	Extra
said	int	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
phoneno	varchar(15)	YES		NULL	
gender	varchar(10)	YES		NULL	

4 rows in set (0.01 sec)

```
mysql> select * from localtourist;
```

lid	lname	lphoneno	laddress	lgender
101	Aaftab	6392144686		male
103	Alam	72267272		male

2 rows in set (0.00 sec)

```
mysql> select * from foreignstudent;
```

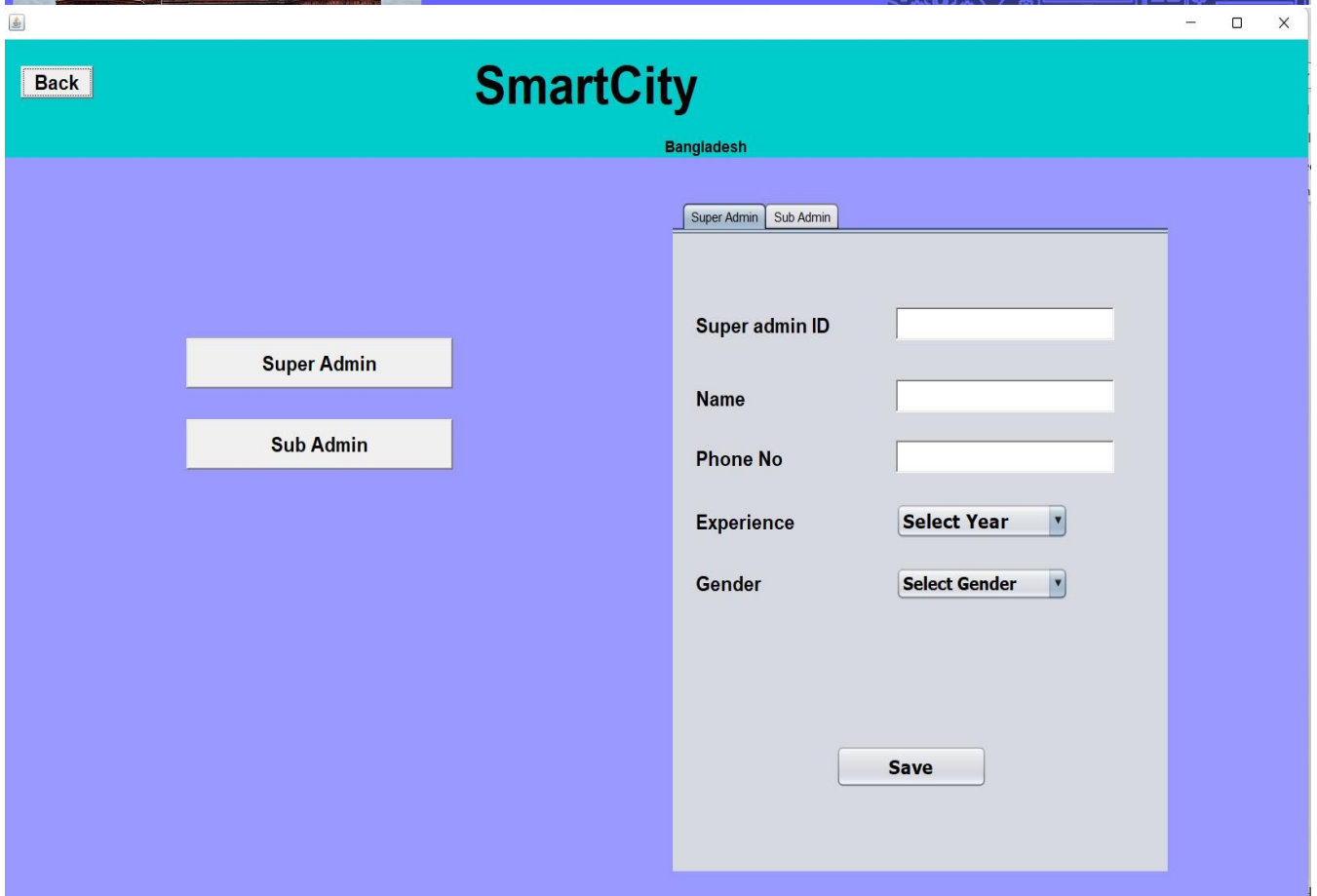
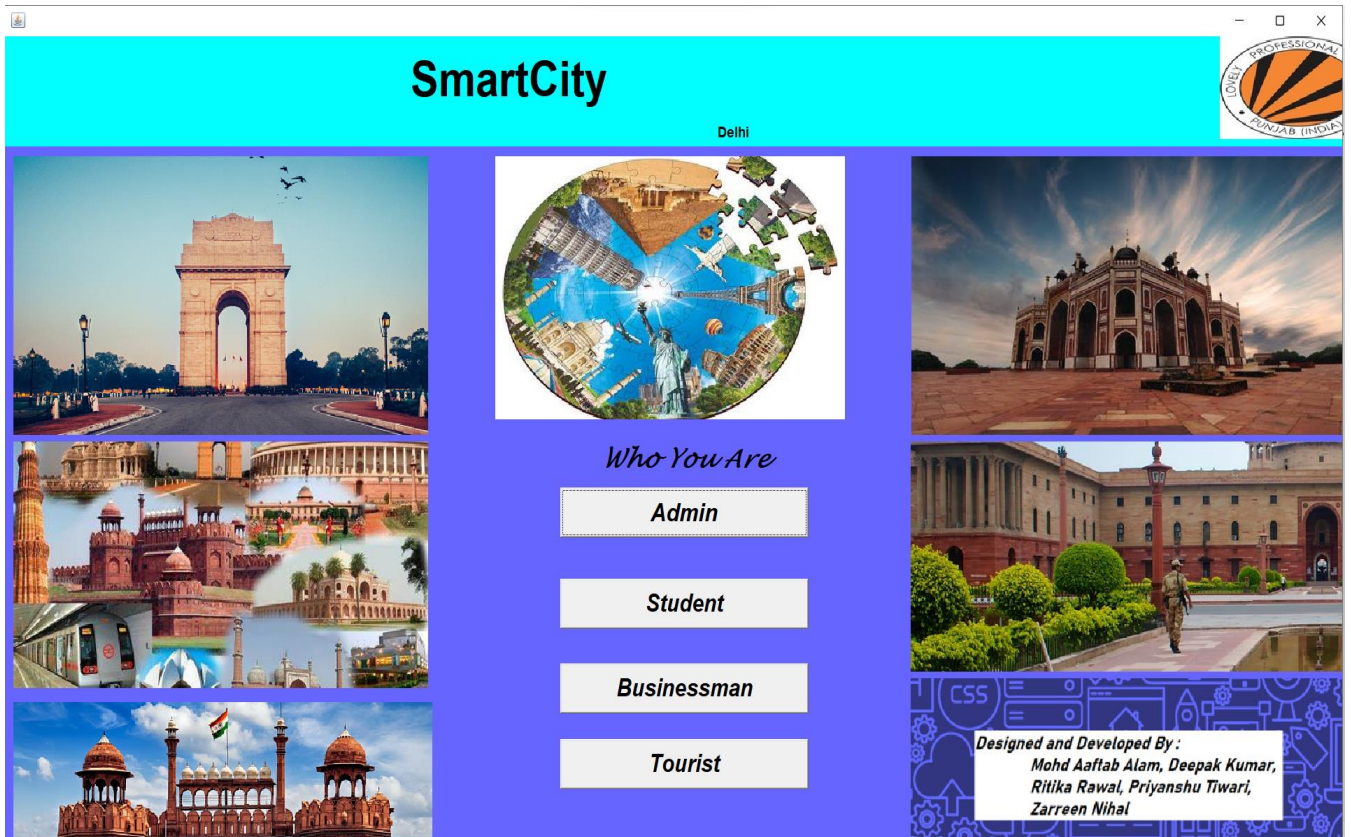
fid	fname	fphone	finsti	fcountry	fgender
101	Zarreen	675722562	LPU	female	female

1 row in set (0.00 sec)

```
mysql> select * from foreignbusinessman;
```

fid	fname	fphoneno	fcname	faddress	fcountry	fgender
101	Aaftab	62576252	AS enterprizes	Delhi	USA	male

Screenshot of pages: -



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SmartCity

Bangladesh

Super Admin

Sub Admin

Sub Admin ID

Name

Phone No

Gender

Select Gender

Save

Back

SmartCity

Delhi

Info Type

Hotels

ID

101

Name

Phone No

Location

Save

ID

Delete

studentinfo

Touristinfo

Back

SmartCity

Delhi

Info Type

Select Type

ID

Name

Phone No

Location

Save

studentinfo

Touristinfo

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SmartCity

Delhi

Local Student

Foreign Student

FS_ID

Name

Phone No

Institute

Country

Gender

Select Gender

Save

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SmartCity

Delhi

☐ Educational_Institute
 ☐ Hotels
 ☐ Hospitals
 ☒ Library
 ☐ Police_stationn
 ☐ Industry

View Info List

Businessmaninfo

Info_Type	ID	Name	PhoneNo	Location
Hotels	1	ABC	5772622	JM
Hotels	2	Ashoka	72762782	ChankyaPuri
Hotels	2	Shoolin	72762784	Pitampura
Hotels	2	ACE-Rsidency	72762784	Grt-Kailash 1
Hotels	4	LimeTree	72762784	Dwarka 23
Hotels	5	Quadis	72762784	Noida 51
Hotels	6	LarchWestern	72762784	MahipalPur
Library	1221	Path Finder	72762784	Rohini 6
Library	1221	SS-chatrawas&Lib	72762784	Rohini 17
Library	1223	PeacefulLib	72762784	Noida 71

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Local Businessman

Foreign Businessman

Local Businessman

Foreign Businessman

Local Businessman

Foreign Businessman

LB_ID

Name

Phone No

Company Name

Address

Gender

Select Gender

Save

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View Info List

Clear Data

ID	Name	phoneNo	Location
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Local Tourist

Foreign Tourist

Foreign TouristLocal Tourist

FT_id

Name

Phone No

Address

Country

Gender

Select Gender

Save

Back

SmartCity

Delhi

Foreign Tourist

Local Tourist

FT_id

101

Name

Aaftab

Phone No

68272611

Address

LA

Country

USA

Gender

male

Save

Local Tourist

Foreign Tourist

Message

Successfully input Profile Data

OK

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View Info List

Clear Data

ID	Name	phoneNo	Location
----	------	---------	----------

Touristinfo