

Smart City Project for New Visitors

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Abstract

The Smart City Project for New Visitors is a Java-based web application developed to provide complete city information for tourists, students, and business users. The system includes modules such as Admin, User, User Guide, Hotel Booking, and City Information. The application helps users explore tourist places, view hotels, book rooms, and receive guidance through a centralized smart city platform.

Keywords

Smart City, Java, JSP, Servlet, Hotel Booking, Tourism, MySQL

I. INTRODUCTION

The Smart City Project aims to create a technology-driven environment that improves the quality of life for residents and visitors. The project provides smart transportation, intelligent tourism, digital connectivity, and secure city management. Users can access city details, hotel booking services, and tourist information through a user-friendly web application.

II. LITERATURE SURVEY

Research on smart cities and IoT technologies highlights the importance of digital infrastructure, intelligent transportation systems, and AI-based tourism management. Previous studies discuss the use of web applications, blockchain, and data analytics to improve urban services and tourist experiences.

III. METHODOLOGY

The project follows a modular methodology that includes User Module, Admin Module, User Guide Module, and Database Management. The system uses Java, JSP, Servlets, and MySQL technologies for secure authentication and information management.



Fig 1: Project Modules

IV. SYSTEM ARCHITECTURE

The system architecture consists of Users, Admins, Guides, and Database modules connected through a centralized Java web application. The architecture ensures secure communication, easy navigation, and efficient data storage.

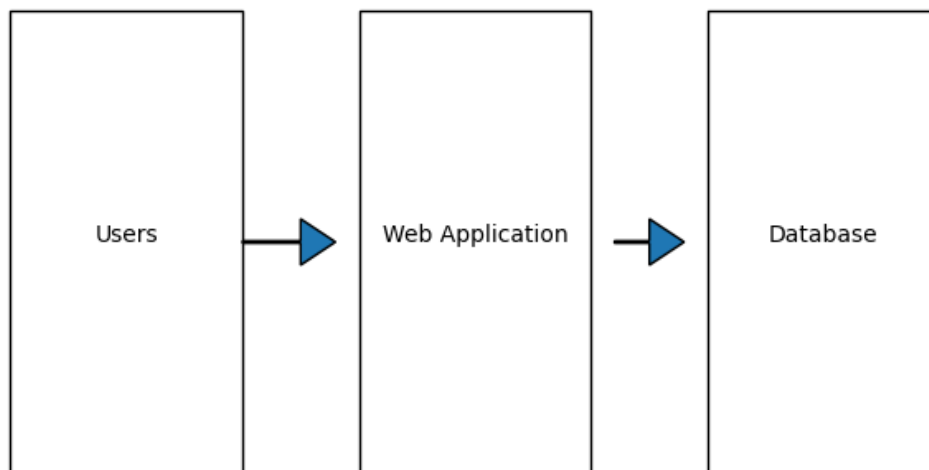


Fig 2: System Architecture

V. IMPLEMENTATION

The Smart City Project is implemented using Java, JSP, Servlets, and MySQL technologies. The application is developed in Eclipse IDE and deployed using Apache Tomcat server. The frontend is designed using HTML, CSS, and JSP pages, while backend operations are handled using Java Servlets.

The project contains multiple modules such as User Module, Admin Module, User Guide Module, Hotel Booking Module, and Feedback Module.

User Module:

Users can register and securely log in to the system. After authentication, users can explore tourist places, search for hotels, book hotels, and provide feedback.

Admin Module:

The admin manages city information, tourist places, hotel details, and user guides. Admins can also monitor bookings and user activities.

User Guide Module:

Guides provide assistance to visitors and update hotel information and facilities.

Database Management:

The MySQL database stores user records, booking details, feedback, city information, and hotel details. Secure database operations are implemented for efficient management.

Security:

The system uses authentication mechanisms and OTP verification to improve security. Proper validation is used to avoid unauthorized access.

Testing:

The project is tested using Unit Testing, Functional Testing, and System Testing to ensure correct performance and reliability.

VI. RESULTS

The project successfully provides city information, hotel booking, tourist guidance, and feedback functionalities. The application offers a user-friendly interface and centralized smart city management.





SMART CITY

HOME ADMIN USER'S USER GUIDES CONTACT US

ADMIN

LOGIN PAGE

VERIFY OTP(ONE TIME PASSWORD) LOGIN

Enter OTP:

VERIFY OTP

CLEAR

CONTACT INFORMATION

+95810220200

PHONE NUMBER

info@company.com

EMAIL ADDRESS

S

v @ Stand Blog Contact Page X -j-			u X
<- C © localhost:8764/SmartCity-2025/AdminLogin.jsp		Summarize@ Q ^ Chat	
SMART CITY		HOME ADMIN USER REGISTER USER LOGIN USER GUIDES LOGIN	
ADMIN LOGIN PAGE			
ADMIN LOGIN		CONTACT INFORMATION	
Username:		+95810220200	
Password:		info@company.com EMAIL ADDRESS	
ESI^3		Hyderabad, Somajiguda	

USER GUIDE REGISTER

Name: E-mail:

Age:

Gender:

Contact No:

Password:

Guide Area:

Upload Historical Place

Place Name:

Location:

About:

Photo: MUNNAR.JPG

Stand Blog - Contact Page

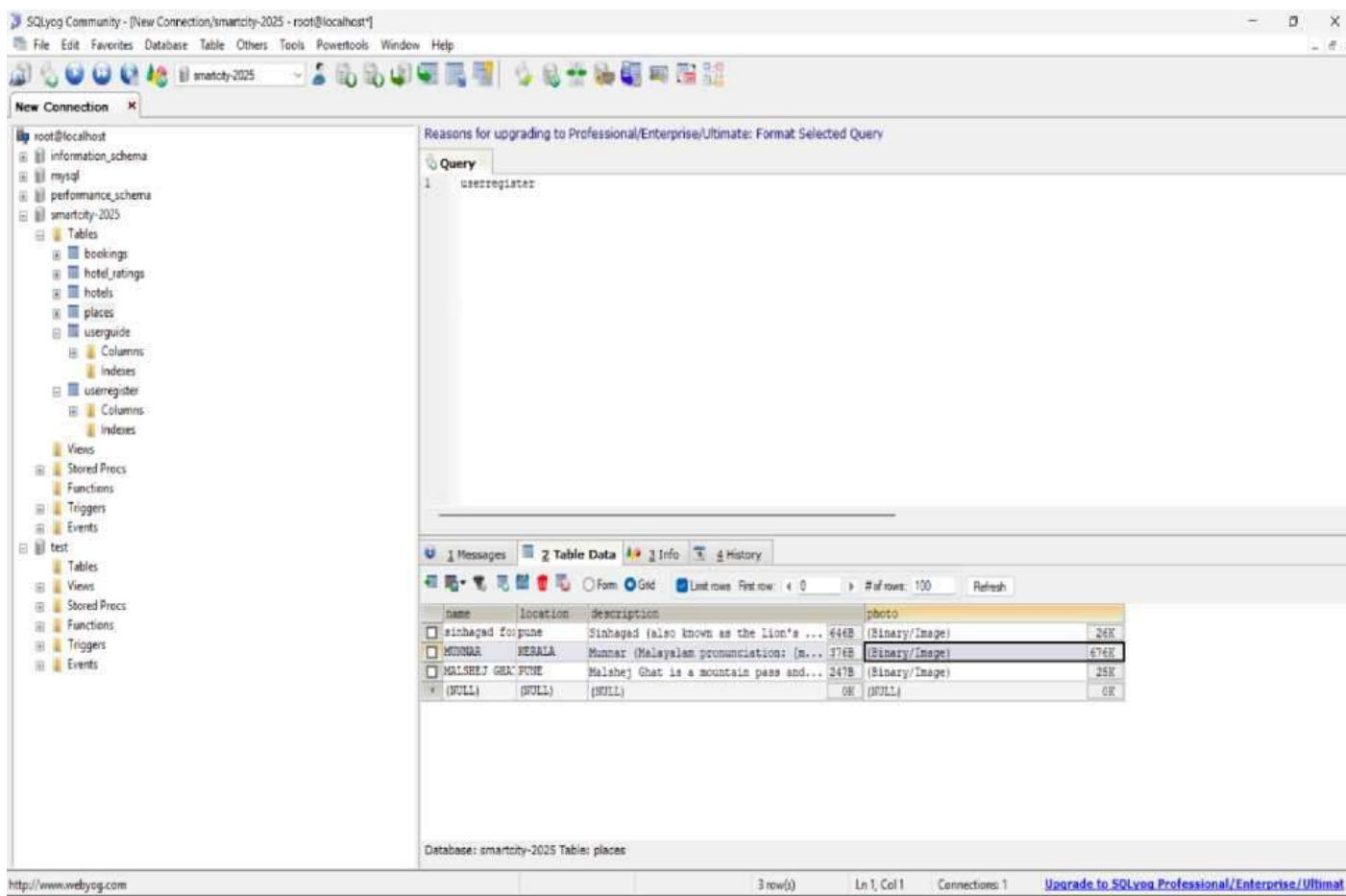
localhost:8764/SmartCity-2025/UserLogin.jsp

SMART CITY. [HOME](#) [HOME](#) [ADMIN](#) [USER REGISTER](#) [USER LOGIN](#) [USER GUIDES LOGIN](#) [CONTACT US](#)

USER LOGIN

Email:

Password:



SQLyog Community - (New Connection/smartcity-2025 - root@localhost)

File Edit Favorites Database Table Others Tools PowerTools Window Help

New Connection

root@localhost

- information_schema
- mysql
- performance_schema
- smartcity-2025
 - Tables
 - bookings
 - hotel_ratings
 - hotels
 - places
 - userguide
 - Columns
 - Indexes
 - userregister
 - Columns
 - Indexes
 - Views
 - Stored Procs
 - Functions
 - Triggers
 - Events
- test
 - Tables
 - Views
 - Stored Procs
 - Functions
 - Triggers
 - Events

Reasons for upgrading to Professional/Enterprise/Ultimate: Format Selected Query

Query

```
1 userregister;
```

1 Messages 2 Table Data 3 Info 4 History

Limit rows First row: 0 # of rows: 100 Refresh

name	location	description	photo
☐ sinhad fozpune		Sinhad (also known as the Lion's ...	646B (Binary/Image) 24K
☐ MUNNAR	KERALA	Munnar (Malayalam pronunciation: (m...	376B (Binary/Image) 674B
☐ MALSHI GHAT PUNE		Malshi Ghat is a mountain pass and...	247B (Binary/Image) 25K
(NULL)	(NULL)	(NULL)	0K (NULL) 0K

Database: smartcity-2025 Table: places

http://www.mysql.com 3 row(s) Ln 1, Col 1 Connections: 1 Upgrade to SQLyog Professional/Enterprise/Ultimate

VII. CONCLUSION

The Smart City Project for New Visitors provides a scalable and efficient platform for accessing city information and tourism services. The project improves user experience through secure login, easy navigation, and centralized information management.

REFERENCES

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- Cisco Smart City Framework Report, 2012.
- Research on AI and Smart Tourism Systems, 2023.