High Level Design (HLD)

MARRIAGE HALL BOOKING APPLICATION (WEB APPLICATION)

Document Version Control

Date Issued	Version	Description	Author
05/02/2023	1	Initial HLD – V1.0	Mohit Chatterjee

Contents

Abstract

The objective and scope of my Project Online marriage hall Booking System is to record the details various activities of user. It will simplifies the task and reduce the paper work. During implementation every user will be given appropriate training to suit their specific needs. Specific support will also be provided at key points within the academic marriage timings.

It's a good question! Why you book marriage hall through online? Bangalore is one of the big cities in India and the city got best Wedding Venues in India. Finding the correct Wedding Venue in Bangalore will be a tough job for you, if you go to find out by yourself. You need help from a Online Wedding Hall Booking website, Wedding Planners is the best choice for you they have a list of Wedding Venues In nearer citites including Wedding Reception Banquet Halls, Temple Wedding Venues, Outdoor Wedding Venues, Palace Wedding Venues, Convention Halls, Ac Marriage Halls In Bangalore etc. You can easily select Best Wedding Venues in Bangalore from their online website.

There are hundreds of marriage halls in citites and finding a hall which in your requirement is like finding a "Needle in haystack" you will face lots of confusions like, is the place is enough to accommodate your guests ,Is there enough space for parking and the cost for the venue is in your budget. If you do marriage hall booking Online then these problems will be solved.

1 Introduction

1.1 Why this High-Level Design Document?

The purpose of this High-Level Design (HLD) Document is to add the necessary detail to the current project description to represent a suitable model for coding. This document is also intended to help detect contradictions prior to coding, and can be used as a reference manual for how the modules interact at a high level.

The HLD will:

- Present all of the design aspects and define them in detail
- Describe the user interface being implemented
- Describe the hardware and software interfaces
- Describe the performance requirements
- Include design features and the architecture of the project
- List and describe the non-functional attributes like:
    - Security
    - Reliability
    - Maintainability
    - Portability
    - Reusability
    - Application compatibility
    - Resource utilization
    - Serviceability

1.2 Scope

The HLD documentation presents the structure of the system, such as the database architecture, application architecture (layers), application flow (Navigation), and technology architecture. The HLD uses non-technical to mildly-technical terms which should be understandable to the administrators of the system.

1.3 Definitions

Term	*Description*
Individual	Marrriage Hall Booking
Database	Collection of all the information monitored by this system
IDE	Integrated Development Environment
AWS	Amazon Web Services

2 General Description

2.1 Product Perspective

Marriage hall Booking System is to record the details of various activities of user and help to book user's choice hall. It will simplifies the task and reduce the paper work.

2.2 Problem statement

To create Marriage hall Booking System for user implement the following use cases.

- Take User's Email and Password.
- Take care that no hall will be booked for same date and time.
- Generating Halls report.

2.3 PROPOSED SOLUTION

The solution proposed here is Marriage Hall Booking can be implemented to perform above mention use cases. In first case, take user's mail and password for building session and generate reports, further in the second use case take user input as a date for particular hall and if on that date if anyone booked that hall then through a message that this hall is not available and lastly in the final use case of Marriage Hall Booking, if everything went well we generate the hall report and that hall report is now available on the above tab which is not present before booking.

2.4 FURTHER IMPROVEMENTS

Payment gateway need more improvement like we need to add some different payment option such UPI, NET BANKING as of now only through CREDIT CARD option is there.

2.5 Tools used

Python programming language and API frameworks such as **FLASK** for Backend and **HTML**, **CSS** and **Java-Script** used in frontend and **MySQL** is used to retrieve, insert, delete, and update the database, **PyCharm** is used as IDE. **GitHub** is used as version control system.

2.6 Constraints

The Marriage Hall Booking Application show all the halls in your locals and you can contact them or directly book a hall with secure payment option and you can get further notification on your mail as well.

2.7 Assumptions

The aim of making the marriage hall reservations with online facility is to provide such generic software which could facilitate any kind of marriage hall with the best. It will be serving

as the backbone of the marriage hall management system. With this software, the management team gets reliable and efficient computerized database reservation. The management team will be able to reserve customer's marriage at any specific time along with their customized request.

2.8 Event log

The system should log every event so that the user will know what process is running internally.

Initial Step-By-Step Description:

1. The System identifies at what step logging required
2. The System should be able to log each and every system flow.
3. Developer can choose logging method. You can choose database logging/ File logging as well.
4. System should not hang even after using so many loggings. Logging just because we can easily debug issues so logging is mandatory to do.

2.9 Error Handling

Should errors be encountered, an explanation will be displayed as to what went wrong? An error will be defined as anything that falls outside the normal and intended usage.

3 Performance

Marriage hall Booking System is to record the details various activities of user. It will simplifies the task and reduce the paper work. During implementation every user will be given appropriate training to suit their specific needs. Specific support will also be provided at key points within the academic marriage timings.

3.1 Reusability

The code written and the components used should have the ability to be reused with no problems.

3.2 Application Compatibility

The different components for this project will be using Python as an interface between them. Each component will have its own task to perform, and it is the job of the Python to ensure

proper transfer of information.

3.3 Resource Utilization

When any task is performed, it will likely use all the processing power available until that function is finished.

3.4 Deployment

3.5 KPIs (Key Performance Indicators)

1. Key indicators displaying a summary of the anomaly detection in the society/area.
2. Time and workload reduction using the MARRIAGE HALL BOOKING APPLICATION.
3. Secure Payment gateway.
4. No conflicts with other user's booking.

4 Conclusion

We have shown how to build a Marriage hall booking system with a database as the back-end and a front-end in HTML embedded with Python. The ability to reserve for any user and the ability to manage the whole database from the web-site made this system a very powerful administrative Marriage Hall booking system. The security model used based on different privilege for different users also makes the system a real-life application.

5 References

1. Github : https://github.com/Mohitchatterjee/BookMyHall
2. Linkedin : LinkedIn Post