SE 201.3   Systems Analysis and Design
Group Assignment

Project Proposal For Online Hotel Reservation & Delivery System.

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1. Background.

This initial project proposal is based on our group assignment, which is focused on capturing, analyzing, and modeling the requirements of a potential website. The website is for Villa Happy Hour Hotel & Restaurant, which is situated in Anuradhapura.

Anuradhapura is a major city in Sri Lanka, and it is one of the ancient capitals of Sri Lanka. It is famous for its well-preserved ruins of an ancient Sinhala civilization. It was the third capital kingdom of the Rajarata. Consider that the distance to the hotel from Anuradhapura is about 400m, and normally it takes 15 minutes to travel there using Pubudu Rode on a normal day. This hotel is surrounded by trees and overlooks the Tissa Wewa reservoir with its historical and natural background. So many local and foreign travelers come to see the beauty of this place.

This Villa Happy Hours restaurant is a middle-level business. It's still growing for the industry of hotels and restaurants. Hotel Vila Happy Hours Hotel and Restaurant has hotel rooms with different types of quality. They also have a food delivery service around Anuradhapura city. They have a special reservation area for special meetings, dinners, family gatherings, or birthday parties.

The servicers that you mention are currently running on manual due to the fuel problem and COVID-19 problem. The customers are looking for a simple and easy method for their work. The owner also had a serious problem with the food delivery aspect of the business. Also, around this area, there are many compilers as well. Sometimes when rooms are booked, some may be booked by phone, and maintaining an ID for our client is practically impossible. Due to time differences between countries, foreign travelers may face difficulties in booking rooms. Many local and foreign tourists have been inconvenienced due to the lack of online transactions.
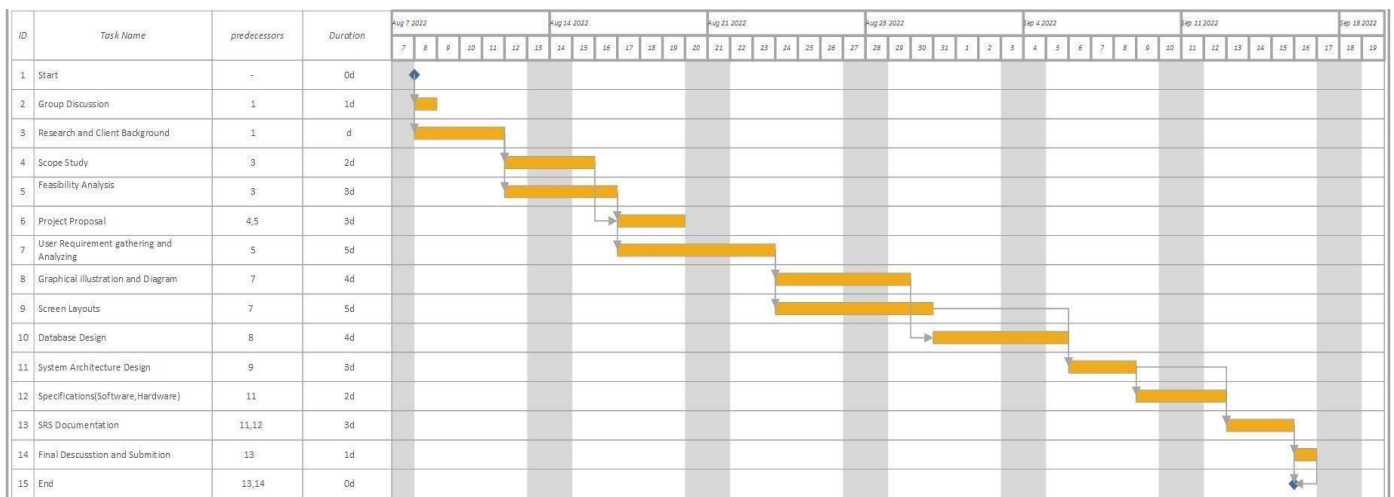
2. Our Solution.

In our solution, this system will be used to support the increasing number of foreign and local customers booking and checking room availability, price rates, table reservations, and secure booking with online transactions. This system can help to increase the number of local and foreign customers and stay competitive in the market by providing information and new updates with new features. Local and foreign customers can easily keep up with the new tourist attractions, special offers, and discounts by using this system. Additionally, the owner wants to market his hotel to foreign visitors and upgrade the special area.

3. Objectives.

- All the local and foreign tourists can obtain information, book rooms, food delivery, table reservations, and other facilities.

- Room booking will happen in the booking section of the web system. After 12 hours, the payment transaction happens, and Gmail will be sent for the confirmation.

- We have provided a smart lock using IOT devices, which can be unlocked by the code in the confirmation mail sent by the system. The code expires when the customer checks out of the restaurant.

- The customer can book a table online and they can book their desired food menu online. Also, after booking a table, it will be updated on the website.

- Once the payment is made, the mail comes to confirm the reservation. It includes the Gmail system as well as a web browser for table selection and menu control.

- All the booked customer information is kept in the database on the admin side page. The owner can access the earlier records and history of the customer's information.

- By using servers on cloud computers, we reduce the cost of server computers.

- Customers can provide feedback on their ideas in the conversion portal, as well as leave comments, upload memories to the web system, and rate the restaurant's features.

4. Gantt chart.

ID	Task Name	predecessors	Duration
1	Start	-	0d
2	Group Discussion	1	1d
3	Research and Client Background	1	d
4	Scope Study	3	2d
5	Feasibility Analysis	3	3d
6	Project Proposal	4,5	3d
7	User Requirement gathering and Analyzing	5	5d
8	Graphical illustration and Diagram	7	4d
9	Screen Layouts	7	5d
10	Database Design	8	4d
11	System Architecture Design	9	3d
12	Specifications(Software,Hardware)	11	2d
13	SRS Documentation	11,12	3d
14	Final Descusstion and Submition	13	1d
15	End	13,14	0d

(Weekend taken as holidays.)