Advanced Technological Institute - Kurunegala

Higher National Diploma in Information Technology

HNDIT2404

Project Proposal

ANDROID APP FOR HOTEL MANAGEMENT

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KUR/IT/2020/F/0056

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1. Title

Android app for hotel management

2. Introduction

A software application developed to help hotel workers with daily tasks is an Android app for a hotel management system. The installation of this app makes it simple for hotel staff to obtain information, carry out duties, and interact with customers on Android phones and tablets.

The app assists front desk employees in managing check-ins, check-outs, and accommodation reservations. It also helps housekeeping personnel with requests for maintenance and cleaning schedules for individual rooms. The app also enables users to request services, give feedback, and get helpful information about the hotel's amenities and services as well as local attractions.

Overall, a hotel management system for Android apps optimizes operations, enhances the visitor experience, and increases employee efficiency. Any hotel that wants to enhance its operations and give customers a better experience should consider using it.

3. Background and Motivation

3.1. Background

The hotel industry is a competitive market, with hotels continually looking for ways to improve their operations and provide a better experience for their guests. With the rise of mobile technology, hotels have begun to use Android apps to streamline their operations and improve their customer service. An Android app for a hotel management system can help staff manage different tasks more efficiently, from check-ins and check-outs to room bookings and housekeeping schedules. The app can also provide guests with useful information about the hotel's amenities and services, as well as allow them to make requests and give feedback.

The development of an Android app for a hotel management system involves several stages. First, the hotel needs to identify the tasks that the app needs to perform and the information it needs to provide. The hotel then needs to hire a team of developers to design and develop the app.

The developers will use different tools and technologies to create the app, including Java programming language, Android Studio, and My-SQL database. The app needs to be user-friendly, intuitive, and compatible with different Android devices. Once the app is developed, the hotel needs to test it to ensure that it functions correctly and meets the hotel's requirements. The hotel can then deploy the app to its staff and guests, providing training and support to ensure that the app is used effectively.

An Android app for a hotel management system is a valuable tool for hotels looking to improve their operations and provide a better experience for their guests. It streamlines processes, enhances communication, and helps the hotel staff focus on delivering exceptional customer service.

3.2. Motivation

The motivation behind creating an Android app for a hotel management system is to improve the hotel's operations and provide a better experience for its guests. With an Android app, hotel staff can perform their tasks more efficiently and communicate with guests more effectively.

The app allows guests to access information about the hotel's amenities and services, make requests, and provide feedback. This improves guest satisfaction and enhances their overall experience. The app can help the hotel staff manage their tasks more efficiently, reducing errors and improving productivity. For example, the app can automate the process of checking in and checking out guests, allowing the front desk staff to focus on providing personalized customer service.

4. Aims and Objectives

4.1. Aims

The aims of creating an Android app for a hotel management system are to improve the hotel's operations, enhance the guest experience, and increase staff productivity.

The app aims to streamline different tasks that the hotel staff perform, such as check-ins, room bookings, housekeeping schedules, and maintenance requests. By automating these tasks, the app can reduce errors and improve the speed and efficiency of the hotel's operations.

Moreover, the app aims to provide guests with easy access to information about the hotel's amenities and services, allowing them to make requests and provide feedback more quickly. This can enhance the guest experience and increase guest satisfaction.

Additionally, the app aims to increase staff productivity by providing them with a user-friendly and intuitive tool to manage their tasks. This can help the staff focus on delivering personalized customer service, ultimately improving the guest experience.

4.2. Objectives

The objectives of creating an Android app for a hotel management system are:

- To automate and streamline different hotel operations, such as check-ins, room bookings, housekeeping schedules, and maintenance requests.
- To provide guests with easy access to information about the hotel's amenities and services, as well as allow them to make requests and provide feedback.
- To increase staff productivity by providing them with a user-friendly and intuitive tool to manage their tasks.
- To enhance the guest experience by providing personalized service and improving communication between guests and staff.
- To improve the hotel's efficiency, reduce errors, and ultimately increase revenue and customer loyalty.

5. Problem in Brief

The app needs to be compatible with different types of Android devices, which can be a challenge due to the fragmentation of the Android ecosystem. The app needs to integrate with the hotel's existing systems and databases, which can be complex and time-consuming. The success of the app depends on how well it is adopted by the hotel staff and guests. The app needs to be user-friendly and intuitive to encourage adoption. Developing an Android app requires expertise in programming, user interface design, and database management, which can be challenging for small hotel businesses with limited resources.

6. Proposed solutions.

- The proposed system is a mobile (Android) based application which allows staff and employers to operate their activities.
- They can manage Rooms services, Hotel Services, Customers, Booking and payments.
- Users can use it with their own mobile.
- They can generate reports for hotel rooms, Customers, Payments.
- Here the Rooms module manages all the operations of rooms, Hotel module can manage Hotel, services module is normally developed for managing services.
- This project is based on android studio and My-SQL mainly.

7. Resource Requirement

7.1. Software Requirements
- Java
- Java Script
- My-SQL
- PHP

7.2. Software
- Android Studio
- Adobe Photoshop

7.3. Hardware requirement

- Processor – AMD or Intel up to Dual core generation
- RAM – Up to 2 GB
- HDD capacity – Minimum 150 GB

8. Gantt Chart

No	Weeks / Description	01	02	03	04	05	06	07	08	09	10	11	12	13
1	**Problem Definition**	■	■											
1.1	Define Requiments	▦												
1.2	Develop the project proposal		▦											
2	**Planning**			■	■									
2.1	Develop the scope statement			▦										
2.2	Develop and Refine other plans				▦									
3	**Design**					■	■							
3.1	User Interface Design					▦								
3.2	Database Design						▦							
4	**Development**							■	■	■	■	■	■	■
4.1	Development app							▦	▦	▦	▦	▦	▦	▦
5	**Testing**												■	
6	**Implementation**					■		■		■		■		■
7	**Documentation**													■

9. Details of the client

Client Name: The olive garden restaurant

Address: Ambampola

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References

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