

SYNOPSIS

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Name of the Course :Computer Technology
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Proposed Project Title : PG Locator (paying guest) apk.

A] Project Description/Definition :

In the present system a customer can get only little information like address, contact number and food. Due to lack of information like price, exact location, security measures, the customer is unable to find the best PG of their choice. Often the customer may be misguided. The main objective of the project is to develop an application that provides PG's information regarding the location, facilities, food, price, maps, transportation facility, and safety measures. Any news, information, advertisements, displayed on this website reaches millions of potential customers. The proposed system is a android based application and maintains a centralized repository of all related information. The system allows one to easily access the relevant information and make necessary judgments regarding the PG's selection. User can take a look on different aspects of the information provided like location map, food, price, transportation facility and even security measures and select a best PG of their choice

B] Present Theories and Practice used/Literature Survey:

As compared to the other applications like Zocalo, Pep rooms, Zelo where the app focuses in giving the static information about the PGs, but not the dynamic i.e., there is no in-depth details about the PG's all over the city. Our app, "Live inn" is an informative application which is providing the information based on our city. It will provide the information to those people who are staying in our city as a paying guest. Mainly it will give a list of available houses for rent in their required budget. This application gives detailed information about all the PGs around the city and also, they are all sorted according to the area, so that search can be made easy. Thus, allowing the users to search it according to their need, there are no specific applications on this domain. But there are static apps which does not give a detailed description about this domain. When the users

are viewing the different houses, instead of directly booking the house they can add to their favorite. And then from this sorted list of houses users can book the house later on. In our application, we are also going to provide various facilities like Tiffin service, Laundry service, Gym etc. In the Tiffin service, users will be given a choice to choose from different kind of menus like Punjabi thali, Gujarati thali etc.

Users will be also given the facility to take advantage of nearby laundry service, gym etc. “Live inn” is a new way to help people meet their needs for living. It will benefit the community of students, working people, and therefore the larger community as a whole. “Live inn”, is an android based application that makes the common people (user) to search for the Paying Guest (PG) all over the city. The PG owners can advertise the PG details by registering into the website which is based on Admin side. Once the admin verifies the details and authenticates the login, the owners will be able to login and can also be able to upload the PG details into the application. The users can view those details and make use of this information to search for the PGs according to their needs. This application helps the users to view the PG details, the facilities in the PG and so on. The users can also search the PG's information based on some parameters such as colleges nearby, rent, Wi-Fi etc... This application will be useful to anyone who is in search of a place to stay. This system mainly focuses on the PG owners as well as the common users who are in search of PGs who come from different places to study as well as to work

C] Scope:

Now-a-days, the process of house hunting is simplified with the introduction of the PG locators. The pain of unnecessarily spending some amount of money on the housing brokers is also reduced to a certain level with the introduction of this app. To develop an application that provides PG's information regarding the location, facilities, food, price, maps, transportation facility, and safety measures is the main purpose of this project.

D] Objectives:

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system. System analysis is a problem-solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

E] System Overview: with block diagram

A data flow diagram (DFD) is a graphical representation of “flow” of data through an information system, modeling its process aspects. A DFD is often used as a preliminary step to create an overview of system, which can later be elaborated. DFD can also be used for the visualization of data processing.

A Data Flow Diagram (DFD) is a structured analysis and design tool that can be used for flowcharting. A DFD is a network that describes the flow of data and the processes that change or transform the data throughout a system. This network is constructed by using a set of symbols that do not imply any physical implementation. It has the purpose of clarifying system requirements and identifying major transformations. So it is the starting point of the design phase that functionally decomposes the requirements specifications down to the lowest level of detail. DFD can be considered to be an abstraction of the logic of an information-oriented or a process-oriented system flow-chart. For these reasons DFD's are often referred to as logical data flow diagrams.

External Entity: -

An external entity is a source or destination of a data flow. Only those entities which originate or receive data are represented on a data flow diagram. The symbol used is a rectangular box.

Process: -

A process shows a transformation or manipulation of data flow within the system. The symbol used is an oval shape.

Data flow: -

The data flow shows the flow of information from a source to its destination. Data flow is represented by a line, with arrowheads showing the direction of flow. Information always flows to or from a process and may be written, verbal or electronic. Each data flow may be referenced by the processes or data stores at its head and tail, or by a description of its contents.

Data Store: -

A data store is a holding place for information within the system: It is represented by an open-ended narrow rectangle. Data stores may be long-term files such as sales ledgers, or may be short-term accumulations.

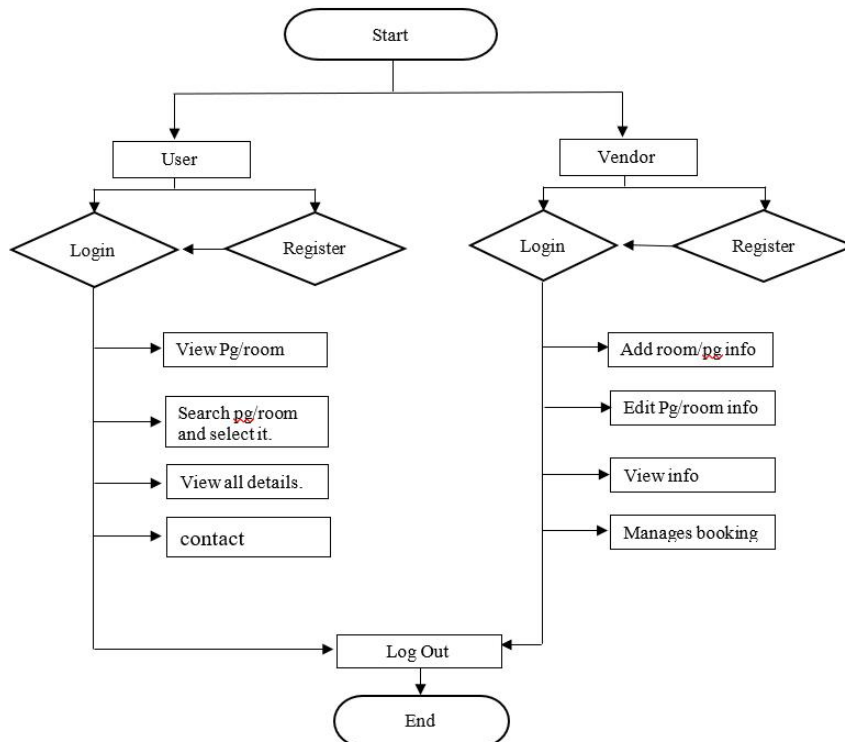


Fig.7.1: System Flow Diagram

F] Implementation Details:

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. Its emphasis is on translating design. Specifications to performance specification. System design has two phases of development.

- Logical design
- Physical design

During logical design phase the analyst describes inputs (sources), outputs (destinations), databases (data stores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

G] System Requirements:

1] Hardware

1) Processor: Ryzen 5 2400g

A processor is the logic circuitry that responds to and processes the basic instructions that drive a computer.

2) RAM: 8 GB

Random-access memory (RAM) is a form of computer data storage which stores frequently used program instructions to increase the general speed of a system.

3) Monitor: 22"

A computer monitors or a computer display is an electronic visual display for computers.

2] Software

1) Platform: Windows 10

Platform is any hardware used to host an application or service.

2) Language: Java

A programming language is a formal computer language designed to communicate instructions to a machine, particularly a computer. Programming languages can be used to create programs to control the behaviour of a machine or to express algorithms.

G] Conclusion:

PG Locator is a user-friendly app which enables the people to easily locate authorized PGs only. time has been an important factor in everyone's life and when people move to different places to study or to work, they definitely have to waste time in searching for accommodation. This app turns to be very time saving for us. There have also been certain cons of this app. the app has been reported to hang/lag in underdeveloped phones. According to a survey conducted by the pew research Centre, in India ONLY 17% of people are using smart phones. so, if the app is reported to hang in underdeveloped phones, then it is something that is to be taken into account and a solution must be provided.

I] References: IEEE Format

- [1]. Beginning Android Programming by Haseman.
- [2]. Android Application Development by James C. Sheusl.
- [3]. Programming Android by Zigurd Mednieks, Laird Dornim, G. Blake Meike, Masumi Nakamura.
- [4]. Android Programming by Bill Phillips, Brian Hardy.
- [5]. the Complete Reference JAVA by Herbert Schildt.
- [6]. Ian Sommerville “Software Engineering” Person Education Ltd,9th Edition
- [7]. [3]MichaelBlaha,James Rumbaugh “OOMD” Person Education Ltd,2nd Edition
- [8]. [4]Elmasri and Nava the “Fundamentals of Database System” Person Education Ltd
5 h Edition
- [10]. [5]Mauro Pezze,Michal Young “Software Testing” John Willy and Sons Pte. Ltd
Edition

Student

Guide

Name &sign of staff

HOD