MINOR-1/2 PROJECT

SYNOPSIS

For

Student Accommodation Finder System

Submitted By

Specialization	SAP ID	Name
B.Tech CSE – AIML (NH)	500083955	Milind Sharma
B.Tech CSE – AIML (NH)	500082497	Rahul Mehta
B.Tech CSE – AIML (NH)	500082578	Rahul B Nair

Department of Informatics

School Of Computer Science

UNIVERSITY OF PETROLEUM & ENERGY STUDIES,

DEHRADUN- 248007. Uttarakhand

Mr. Ankit Kumar
Project Guide

Dr. THIPENDER P SINGH
Cluster Head

Synopsis Report

Project Title: STUDENT ACCOMMODATION FINDER SYSTEM

Synopsis Report

Abstract	**4**
1. Introduction	**4**
2. Literature Review	**5**
3. Problem Statement	**5**
4. Objectives	**6**
5. Methodology	**6 - 7**
6. PERT Chart	**8**

Abstract

The current project is about student hostel recommendation system. As we see that students face issues in selecting better accommodation and booking a hostel on-site can be an overwhelming task with so many of hostels to choose from. Motivated by the importance of this situation, we decided to work on the task of recommending hostels to students through our web-based application. Our hostel recommendation system aims to predict and recommend better suggestions for opting efficient accommodation based on user ratings and preferences to a student. The web-working application includes modules which operate functionality like prediction, recommendation and comparison based on multiple features like price, distance between university and hostel, living environment, basic amenities provided at the living residence, etc.

1. Introduction

Afterwards finishing center of learning a learner penetrates a new chapter to start. their carrier and fulfill his dream. And he embarks for a college, but before that, he faces various issues, and the biggest issue is hostel selection.
When you enter a hostel, it becomes your second domestic home and you become a component of a new family. But it's additionally important to pick up a hostel according to your desire and your requirements. So, our project is solving the issue for the students to search for their hostel according to their will by offering various filters like room selection, optimal location, partner preference, and countless more, and recommends the finest hostel for them according to their liking.

2. Literature Review

In an attempt to review existing literature on this innovation-Hostel Recommendation System, we came across a number of similar products that are in use in many colleges worldwide.
The effort to remove manual labour and automate the process of finding a suitable accommodation is an initiative taken up by a couple of companies to meet user needs in the most simplified way and provide ease of access.
College Hostel Management Software developed by Initio has six modules such as the library module, the transport module, the hostel module, the inventory/store module, the enquiry module and the visitor's tracking module. It offers information on the building, rooms and students. Microbes Hostel system is another software product that automates the hostel facility management exercise. It has several compelling features like powerful reservation management, synchronization of computers, reception and cash box administration, point of sale, accounts statistics and reports.
"e Hostel" is an android application to automate the manual hostel management system of particular hostel associates with collage. It solves the important problems like room allocation, fee and fee receipt management, complaint management, maintain visitor records and student leave management.

3. Problem Statement

As students move out of their residences, they find it difficult to find a suitable accommodation for themselves. Going door to door, involves time and multiple resource consumption. In the world equipped with advanced technology and internet for all, why go for a manual labor? Our student accommodation finder system is a one-stop solution for this 21st century issue. HOSTELPEDIA is a user-friendly web-based application that helps to find suitable housing property for students based on user ratings and preferences.

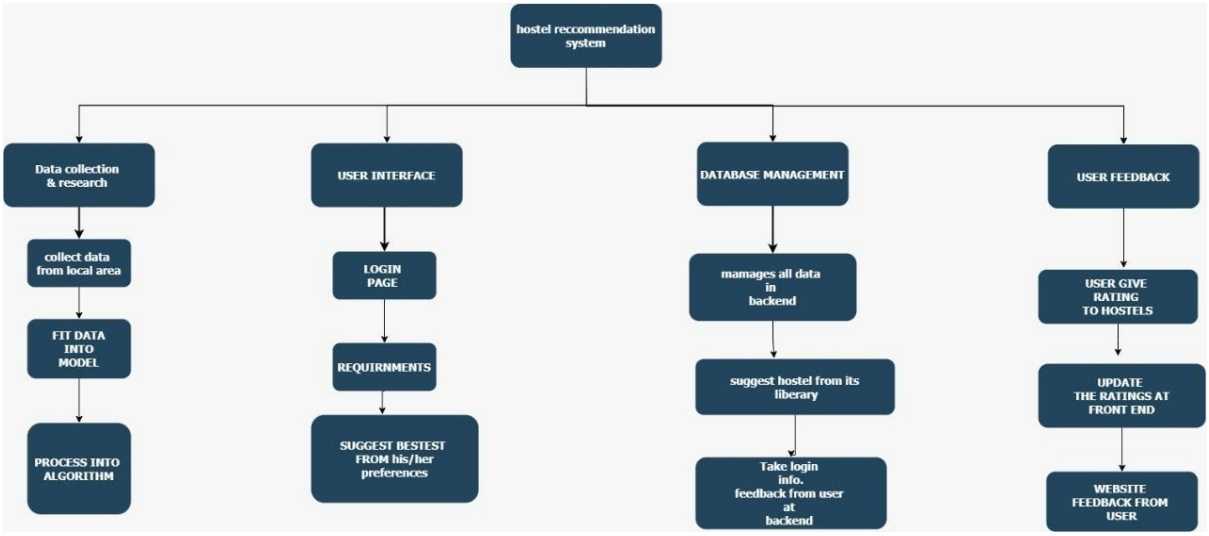
The problems which our platform HOSTELPEDIA tackles are listed below:

- Time consumption: visiting multiple doorsteps and surveying about rental housing takes a lot of TIME. Removing this manual effort, our finder system is a perfect solution for saving time as it gives accurate results according to the user-needs and thus saves time.
- False information: taking a real time scenario, sometimes the managing authority talks all positive about their property and the real situation fades away. HOSTELPEDIA provides user reviews for a much detailed and true identification of needs and facilities provided by the residential property.
- Easy accessibility: HOSTELPEDIA facilitates as a simplified and easy to access solution for the user through its 24x7 availability of updated information at its site.
- Economic solution: Commuting places to find the best option often turns out to be a hectic task. HOSTELPEDIA not only reduces human labor but also saves one's capital indulged in commuting to find accommodation. Hence, giving an economical solution.

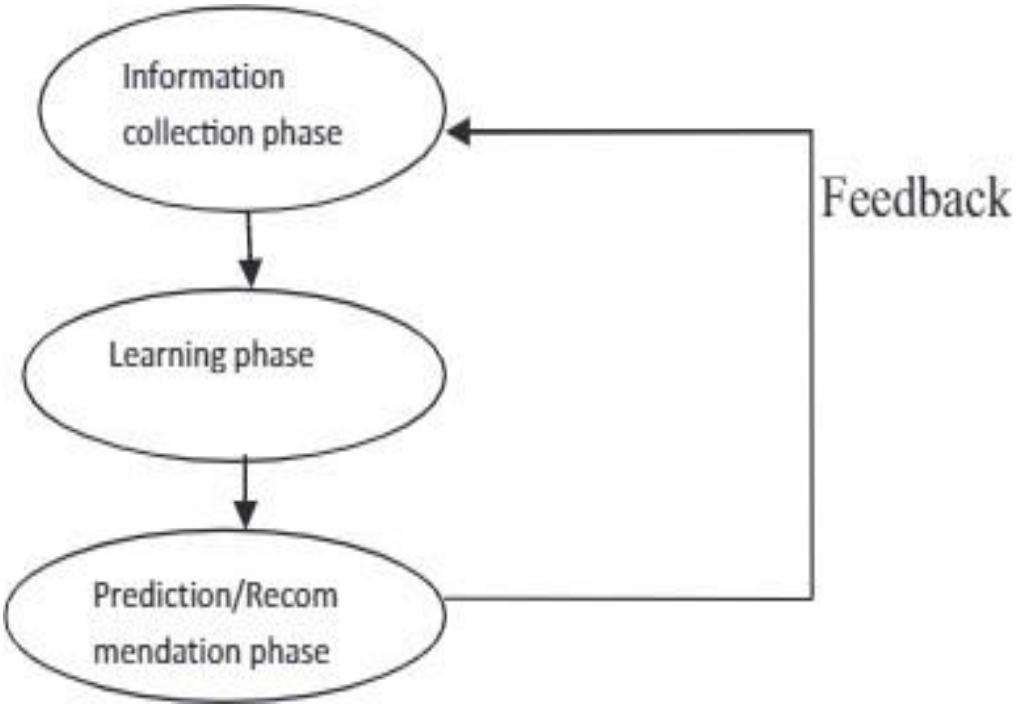
4. Objectives

Hostel recommendation system aims to solve the problem of freshers to opt the best hostel for his/her living by getting preferences from current members into our website we filter all the data from the database with the help of some machine learning algorithms by which the user is provided by the best suitable hostel in the terms of distance, Price, vulnerability and comfort.
The platform also filters our data with the feedback ratings from the user side which will help us to clarify more suitable hostel recommendation.
It aims to collect all the information of hostels and reflects on the website.
by which we can solve a big issue for a college fresher who moves to unknown city and search for a hostel.
Thus, saving manual labor, time and other user resources.

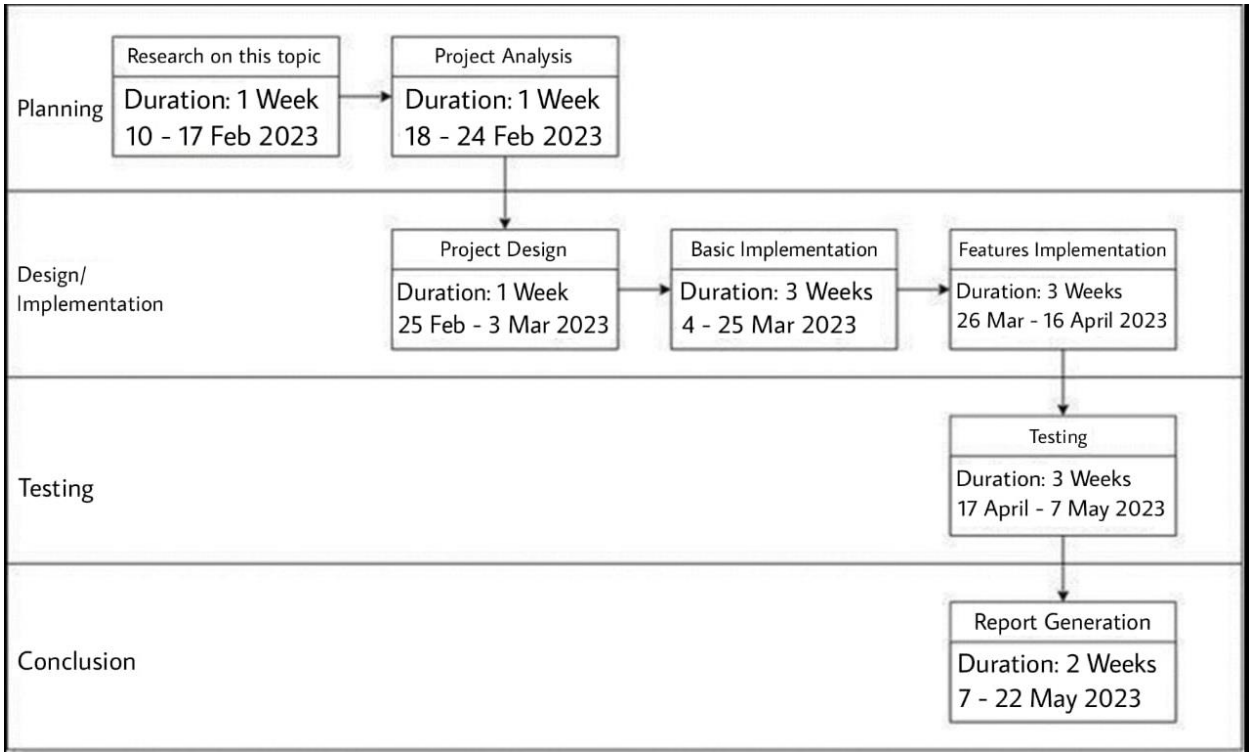
5. Methodology



Algorithm methodology



6. PERT Chart


Planning
Research on this topic
Duration: 1 Week
10 - 17 Feb 2023
Project Analysis
Duration: 1 Week
18 - 24 Feb 2023
Design/
Implementation
Project Design
Duration: 1 Week
25 Feb - 3 Mar 2023
Basic Implementation
Duration: 3 Weeks
4 - 25 Mar 2023
Features Implementation
Duration: 3 Weeks
26 Mar - 16 April 2023
Testing
Testing
Duration: 3 Weeks
17 April - 7 May 2023
Conclusion
Report Generation
Duration: 2 Weeks
7 - 22 May 2023