WEB BASED APPLICATION ON FLATMATE SEARCHINGSYSTEM

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Abstract- **Flat mate finding system is web-based housing system which would give renting or homestay services to tourists throughout the world. Our website will serve as a platform for people who want for renting out their places also those whom are looking for staying place. None of the real estates will be owned by ourplatform. Our goal is to create a web application that is both user-friendly and responsive, as well as we might construct it specifically for tourism and personal usage. For the front-end side of our web application, we utilized HTML, CSS, and Angular JavaScript, and for the back-end side of the web programme, we used PHP and MySQL. Those who use our online application will find it much more useful.**

Keywords— HTML, CSS, Angular JS, php, MySql.

1. INTRODUCTION

In India, more and more people are shifting to the A- tier cities for better opportunities, so the demand for affordable housing is also increasing. The best option is to have flat mates which help to reduce the cost and have a more family environment in the house. But finding flat mates is a daunting task and having the wrong flat mates can be a nightmare. During my research, I found 2 main reasons as to why people might be needing flat mates

▪ Having a flat mate reduces the overall cost of living as the rent,electricity and some other expenses are also shared.

▪ People leave their home town and come to the cities for jobs and other opportunities, they feel homesick. Having someone to talk to is nice and can be helpful for your mental health.

2. PROBLEM STATEMENT

In today's modern world for almost every student needs to reallocate his/her residence for job. Few locations are there where most of the companies' offices are established. It is a big challenge to spend money in a new city even without having the first salary. Which could be easy if we can make sharing in rent and food with a roommate. Pain point:

● Individual flat are not feasible to either buy or to rentfor most of the people

● When you share your flat with someone you don't know,trust concerns arise frequently.

● Different lifestyles and habits.

● Most of the apps/services don't offer both facilities like flat/flat mates.

● People do not give correct information about their location, lifestyle, and move-in date, among other things.

● Takes a lot of time to search for places matching user expectations. 2. No real estates will be owned by this online application, which will only link to those properties that are already in the market for this kind of real estate. It will only serve as a conduit between those who need lodging and those who want to rent out their homes. The sort of accommodation would be short-term and geared toward tourists.

3. FEASIBILITY STUDY

A feasibility study considers all possible solutions to situation at hand. The suggested solution shall meet all of needs of users and be adaptable enough to accommodate any modifications that may arise in future.

A. Economic Feasibility

      While working on a project, this is a critical factor to keep in mind. We chose the technology depending upon the least expensive option. We are responsible for full price of any hardware and software used in the project.

B. Technical Feasibility

- We examined all of system's features to see whether it could be implemented utilizing various backend and frontend platforms as part of our feasibility study.
- As per feasibility analysis technique, the system's technical feasibility is evaluated and the system's technical needs, like programming capabilities, methodology, and input, are determined. In addition, this is among most critical phases in system development procedure.
- While processing speed has increased, the system's user friendliness has improved. Maintenance expenditures might be reduced as a result.
- User-friendliness and processing speed are both enhanced by software. As a result, lower maintenance costs are possible.
- A fast processing speed and decreased maintenance workload persuade management that this project is both technically and practically viable.

C. Scheduling Feasibility

- The proportion of working groups given to each task must be known in advance. Through our software, we kept track of start and end dates of each activity, as well as number of working days in each week.
- Technically it is possible to execute this project on time since our project guide has extensive knowledge of all necessary technologies.

D. Operational Feasibility

    Definitely, proposed scheme is all GUI-based, which makes it very easy to use. Even a person who doesn't know how to use computers can figure out what to do with all of inputs. In addition, users have received enough training on system's essentials, so they are already comfortable with it. As per our study, customers are happy and content since system has decreased their burden and to-do list.

E. Behavioral Feasibility

    Humans are notoriously reluctant to change, despite fact that computers are well-known for making it easier. It's important to make an educated guess about how quickly average user will embrace computerization. Security measures are in place to guarantee that organization's most sensitive data is protected at all times.

4. PROPOSED WORK

On this site, there would be 2 different sorts of consumers.

TYPE 1 Users will seek for homestays, while others will post ads for the rental of their homes or rooms. Both types of users will place ads. The first sort of user will just put name for our site into their search box and they will be able to access our website without having to log in or create an account with us. They would be enabled for accessing all of our postings as soon as they log on to our site.
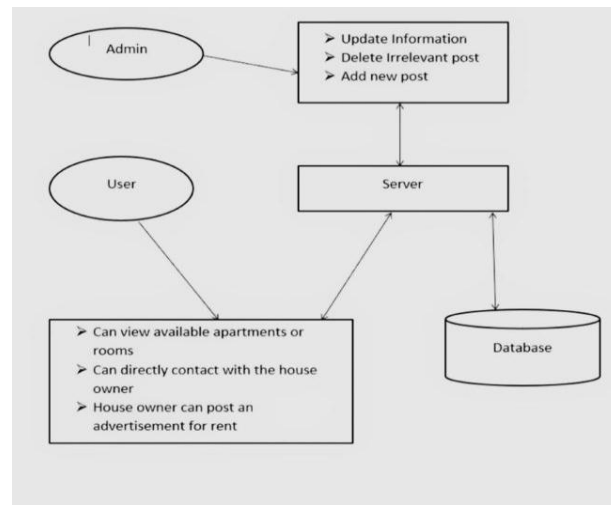
TYPE 2 USERS have to will need to register at the very first step. To do this, all they have to do is clicking upon the account link in navigation bar. Users will then be sent to a registration screen where they must give their username, mail, and passcode as well as a phone number, a picture, and maybe any more information connected to the post they've made. For first time, they will be able to log into their account.
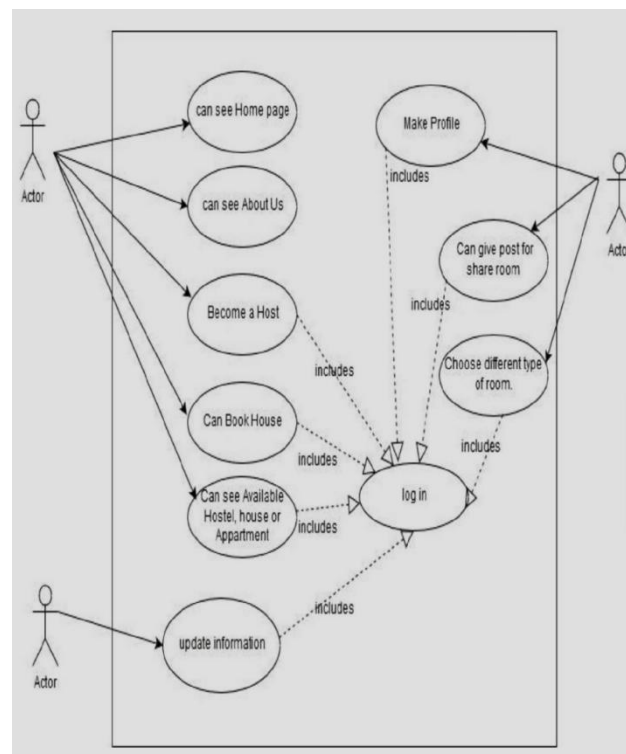
This figure shows the first page of web application from where user can either navigate to search for new flat mates or he can go to login page for where he/she can manage his/her personal advertisement and make changes accordingly.
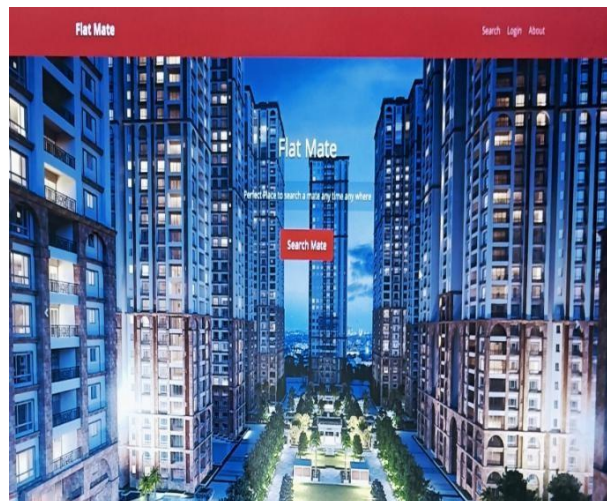
In this page user can search for new flat mates according to various parameters but our main focus is on hobbies and common interests. These are Type 1 users.
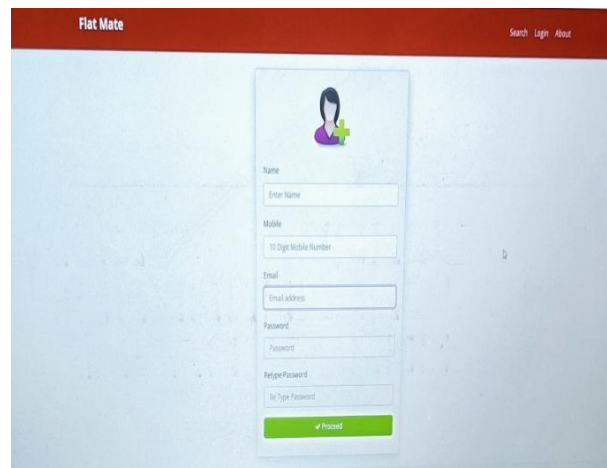
This is our login page from where user can post a new advertisement. These are Type 2 users.

5. METHODOLOGY

We developed this project utilizing the Waterfall modal technique, which allows users to find a new roommate who shares their interests, as well as list their room on the internet.

1] User Choices: This program has following features accessible to user:
- In order to identify the user's kind, he or she must first log in. The existing client could be looking for flat mate or accommodation.
- To use app, a user must first establish an account and enter personalized preferences and information.
- User has access to their profile and preferences.
- User may amend their information by using the edit profile feature.
- Name of university may be used to limit down the search for roommate.
- Percentages of potential matches are shown based on the user's choices, interests, and university.
- User's short list may be expanded to include more selections.
- Send an email to prospective clients.

2]Login: A log-in screen will appear when the program is opened. By entering verified username and password, users may access certain app features depending on their job. If a user enters the erroneous username or password, they will be presented with an error notification

3] Registration: It is possible to sign up for app once the user has opened it. The reason for enrolling must be specified by user. Up in second step, you'll need to fill in some basic information like your name and contact information. Into third step providing information about institution where you want to enroll or graduate, predicted major, and your educational level is the last stage in application process. The user's fourth step in the apartment search process is to specify their preferences, like budgeting, apartment and flats share priorities, preferred house type, and date on which they want to move in. Roommates who are looking for a place to live must complete the application process by providing details about their desired residence, like rent, number of roommates, their contact information, their apartment's website, and any pictures they may have. Incorporating personal interests and pastimes is the last step. General preferences such as gender, diet and smoking habits are included in the sixth phase.

4] View profile: The information a user provided throughout registration process will be shown on this page. Basic information, university-related information, preferences for an apartment and preferences for a roommate, hobbies and activities, and general preferences may all be seen by users on the website.

5] Edit profile: Upon login in app, a user may see their profile page and make changes to their data by clicking on the edit button icon.

6] Look for people that are seeking for a roommate: The user will be sent to search screen after login into the app and selecting "Search" from menu. Users seeking for an apartment may be found by choosing their university from drop-down menu. A thorough information webpage would be presented if you pick one of them. Clicking on the "Add to Shortlist" button will add user to list of those being considered for further consideration. It is possible to send a message by clicking the "Send Message" button, which opens a dialog box in which the user may type their message and then press "Send" to send it.

7] Perfect roommate match for the user: Users will be presented with a list of all of their most-preferred matches after signing in and selecting the Potential match option from the menu. A thorough info webpage would be presented if you pick one of them. Clicking on the "Add to Shortlist" button will add the user to the list of those being considered for further consideration. It is possible to send a message by clicking the "Send Message" button, which opens a dialog box in which the user may type their message and then press "Send" to send it.

6. TECHNOLOGY USED

1). HTML-Hypertext Markup Language (HTML) is industry standard markup language for texts intended to be viewed in a web browser. Web browsers transform Html files in multimedia web pages after receiving them out of web server whether via local storage. Semantically, structure of a website page may be described using HTML, which initially included a visual guide. The building components of HTML pages are HTML elements. Using HTML structures, pictures and other objects, like dynamic forms, may be embedded within the produced page.

2). CSS-Cascading Style Sheets (CSS) is style sheet language that is used to describe display of a document authored in a markup language such as HTML. The World Wide Web relies heavily on CSS, along with HTML and JavaScript. CSS is meant to separate appearance from information, covering layout, colors, from fonts. Allow different site webpages that consider sharing formatting by defining the required CSS in separate CSS file, and decrease complexity and duplication in the structure content by providing more freedom and control over presentation features. It is also possible to show the same markup page in multiple styles for different rendering techniques such as onscreen (through screen reader or speech-based browser) and Braille-based tactile devices due to the separation of styling and content, thanks to markup pages.

3). PHP (Hypertext Preprocessor) is a general-purpose programming language that was initially created for web development. Original developer Rasmus Lerdorf built the first version of PHP reference implementation back in 1994. Recursive initialization is commonly referred to as PHP instead of Personal Home Page, which was the original meaning of the acronym. Code written in PHP may be performed through command line interface (CLI), inserted into HTML, or used in conjunction with a variety of different web template systems, content management systems, and frameworks for the web. Web servers and CGI executable's both support PHP code as a module and as an executable via their Common Gateway Interface (CGI). This output may be anything, including produced HTML code or binary picture data, depending on how the PHP code was parsed and processed by web server. PHP may be used for variety

of non-web programming activities, including standalone graphical apps and operation of robotic drones.
Server: For the most part, our website has been hosted locally. Local hosts are servers that operate in a local or mounted folder, but whose document root may not be parent of a project's main document root. After we finished developing, we sent source code to server.

4). Oracle Corporation owns and maintains MySQL Server. MySQL is a server-side database management system for web. MySQL is an excellent choice for sites of every size, from microblogs to enterprise portals. Databases love it because it is lightning-fast. Our dynamic project has necessitated the creation of a table here, as well as the storage of relevant data. Access, query, update, and management of data in databases are all made easier using MySQL, commonly used database.

5). AngularJS: An open-source framework for building websites. Misko Hevery and Adam Abrons created it in 2009. Google presently maintains it. The most recent update is 1.2.21.
- It is possible to build rich Internet applications using AngularJS, an efficient framework (RIA).
- Developers using AngularJS may create client-side JavaScript apps in consistent Model View Controller (MVC) manner.
- AngularJS applications are cross-browser compatible. AngularJS takes care of JavaScript code that is appropriate for each browser, automatically.
- There are hundreds of developers throughout the globe using AngularJS, which is free and open source. The Apache license, version 2.0, applies to this work. As a framework for building massive, fast, and easy-to-maintain online applications, AngularJS is a great place to start.

7. CONCLUSION

This project helped me to get a deeper understanding of user personas and get a better understanding of user. I could have improved to build empathy and tried address pain points. This project was a great learning curve and it's important to always consider user. Moreover, a web-based application resolves the problem that was earlier faced by people in finding a perfect flatmate without any hassle.

8. REFERENCES

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