Project Proposal

Roommate Finder and Management System

Section - 08
Group Number - 03

Group Members

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Roommate Finder and Management System

Our project aims to build a software, which will help the bachelors to find their perfect rooms and roommates in their own district, according to their preferences. In addition to that, it will also act as a management system to manage everything among the roommates living in the same roof such as managing day to day expenses.

Project Rationale

Background

Try to answer the following questions in this section (not all of them have to be answered):
- Is there a problem the project is seeking to address?
  ANS: Yes, in a densely populated city like Dhaka it is really hard to find roommates or rooms for bachelors according to their preferences and managing the day to day expenses of the bachelor houses.
- Is there an opportunity the project is seeking to pursue?
  ANS: Yes.
- Will the project meet a need that is currently not being met?
  ANS: Yes.
- Is there a reason for doing the project?

  ANS: Yes

Scope

Answer the following questions in this section (not all of them have to be answered):
- What is the audience the project is trying to reach?
  ANS: Bachelors living in different cities
- Who are the target users?
  ANS: Bachelors search for roommates,rooms and bachelors who are finding it difficult to manage the expenses of their houses expenses and chores.
- Of what use will the project be to these users?
  ANS: Help to find rooms and roommates, if I am interested in looking for rooms with some other roommates, it will show me the suggested roommates. Also help to manage everything of the bachelor houses
- A general estimate of the scope or size of the audience.

Project Objectives

The objectives of this project is to simplify the way to find rooms and roommates for potential tenants, easier roommate compatibility, simple way to post room listings for home owners and easier way to manage and divide room utility bills and chores division for roommates.

Project Approach

Answer the following questions in this section (not all of them have to be answered):
- What stack and technologies will the project use?
  ANS: We are using Mern Stack.
- Identify the risks that may impact the successful delivery of your project.

  ANS : The MERN stack and building a project using MVC architecture is relatively new for our team and thus may cause time management challenges.

Requirements

This section should have the following things:

- A list of the project's requirements (at least five (5))

- "What the user(s) will be able to do" in short natural language descriptions.

- At least four (4) features each.

Requirement No.	Requirement
1	As a bachelor I want to be able to find rooms for me in accordance with my preferences.
	Feature 1: The system will allow the bachelor to select rooms according to his prereferences.
	Feature 2: The system will provide a save room listing option to the bachelor in order to save their favorite room listings.
	Feature 3: The system will allow the user to view detailed room information.
	Feature 4: The system will provide filtering by budget, location, etc to the bachelor

2	As a bachelor flat owner or house owner I want to be able to post for bachelor tenants.
	Feature 1: The system will allow the flat owner to create and submit bachelor accommodation posts.
	Feature 2: The system will provide UI for uploading photos and room information to the flat owner.
	Feature 3: The system will let the flat owner communicate with bachelor tenants.
	Feature 4: The system will allow the flat owner to manage, or update their posts.

Requirement No.	Requirement
3	As a bachelor I want to be able to find roommates according to my preferences who are also searching for bachelor houses.
	Feature 1: The system will allow the bachelor to view the compatibility score of potential roommates
	Feature 2: The system will provide a way to communicate via text messages for the bachelor to find potential roommates
	Feature 3: The system will allow the bachelor to search and filter for potential roommates based on budget, gender or area.
	Feature 4: The system will allow bachelors to view detailed profiles of potential roommates, including profile picture, lifestyle preferences, medical details and contact number.
4	As a bachelor I want to be able to see the suggested roommates who are also looking for rooms and the system will suggest me compatibility scores of the bachelors.
	Feature 1: The system will allow the user to on his/her status if they are looking for rooms.
	Feature 2: The system will provide users to see who are also searching for rooms.
	Feature 3: The system will help us to check compatibility score by clicking on the thumbnail of the people who are searching for rooms

	Feature 4: The system will allow user to send roommate request to the persons
5	As a bachelor I want to be able to manage everything among the roommates.
	Feature 1: The system will allow the bachelor to group chat with existing roommates.
	Feature 2: The system will allow the bachelor to manage an expense tracker.
	Feature 3: The system will provide the bachelor with a chore rotation scheduler.
	Feature 4: The system will provide the bachelor to report a user to the app and red flag the person in case he creates a conflict.

Conclusion

In conclusion, our project aims to make a Roommate Management System that makes it easier for potential tenants to find rooms and compatible roommates based on their lifestyle choices and habits, profession, medical issues and budget. Compatibility score and filtering mechanism also makes it much more efficient to find suitable rooms and roommates. Moreover, property owners can also post room listings and manage those posts effectively.