**Synopsis**

E-Rent System

**Introduction:**

In this project we are going to sell the online room, flats, and hostels according to the customer needs. In the current project, app feature is not available and brokers also takes the extra charges from the customers. Customer can apply filters on location, budget or category either they are flats/hostels/room. This project is not available for each and every city. Only for metro cities it is available. In this project we are having three modules Administrator, Room Owner/Agent and customer.

Administrator:

* The admin will approve or block the rent post.
* The admin will verify the user by Adhar card or pan card.
* The admin will approve the owner.
* The admin will view the bookings.
* The admin will logout their id.

Room Owner/Agent:

* The owner will login in the portal.
* The owner will register themselves.
* The owner can Post/Edit/Delete rooms.
* The owner can see the booking information.
* The owner will logout from the portal.

Customer:

* The customer can login in the portal
* The customer can register themselves.
* The customer can search the room by applying different filters.
* The customer can book the room.
* The customer can logout from the portal.

**Problem Statement:**

Problem in the existing project is that many students facing the problem in small cities where this kind of portal is not available. This project is only available in metro/big cities only. For renting the hostels/flats agents charges the extra amount to the renters. Many security problems will be there. No app is available for this type of project.

**Proposed solution:**

This project will be available in all over the india. No extra charges will be taken by the agents. Directly customer can book their room/hostel/pg. we will solve the security problems also using python language. In this project we are going to sell the online room, flats, and hostels according to the customer needs. Customer can apply filters on location, budget or category either they are flats/hostels/room. Room sharing facility will be available in this project. We will use the payment gateway facility also. The main focus of this project is to help those people which are seeking for the flats or hostels in another city either for their personal use or for any official purpose. In this we will provide the feature of app.

**Technology Used:**

Front-end: HTML, CSS, JavaScript, Jquery, Bootstrap.

Backend: Sqllite

Technology: Python, Django

**Justification:**

**About Python**

Python is a popular programming language. It is used for web development (server-side),software development ,mathematics, system scripting.

* **Easy-to-learn** − Python has few keywords, simple str
* ucture, and a clearly defined syntax. This allows the student to pick up the language quickly.
* **Easy-to-read** − Python code is more clearly defined and visible to the eyes.
* **Easy-to-maintain** − Python's source code is fairly easy-to-maintain.
* **A broad standard library** − Python's bulk of the library is very portable and cross-platform compatible on UNIX, Windows, and Macintosh.
* **Interactive Mode** − Python has support for an interactive mode which allows interactive testing and debugging of snippets of code.
* **Portable** − Python can run on a wide variety of hardware platforms and has the same interface on all platforms.
* **Extendable** − You can add low-level modules to the Python interpreter. These modules enable programmers to add to or customize their tools to be more efficient.
* **Databases** − Python provides interfaces to all major commercial databases.

**Django (Framework)**

Django is a high-level Python Web framework that encourages rapid development and clean pragmatic design. A Web framework is a set of components that provide a standard way to develop websites fast and easily. Django’s primary goal is to ease the creation of complex database-driven websites. Some well known sites that use Django include PBS, Instagram, Disqus, Washington Times, Bitbucket and Mozilla.

**Bootstrap**

Bootstrap is a free front-end framework for faster and easier web development. Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins. Bootstrap also gives you the ability to easily create responsive designs. Due to these features we use bootstrap which are as follow:

* **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
* **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
* **Mobile-first approach:** In Bootstrap 3, mobile-first styles are part of the core framework
* **Browser compatibility:** Bootstrap is compatible with all modern browsers (Chrome, Firefox, Internet Explorer, Edge, Safari, and Opera)