



e-ISSN: 2319-8753 | p-ISSN: 2347-6710

IJRSET

International Journal of Innovative Research in
SCIENCE | ENGINEERING | TECHNOLOGY

INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN SCIENCE | ENGINEERING | TECHNOLOGY

Volume 10, Issue 8, August 2021

ISSN INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA

Impact Factor: 7.569

9940 572 462

6381 907 438

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www.ijirset.com

Tenant Buddy – A webapp Using Django and AWS

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ABSTRACT: This web application helps user to register individual home or apartment to assist you in finding the perfect rental home or property. Also we can find your next rental from search view in your targeted area. This website is designed to attend to all our needs from buying property, selling property or renting/leasing of property in India. We are here to give seamless access to the affordable rooms for the needy peoples. The name of the project is "TENANTBUDDY", this is important because the people like students and bachelors are always need to find Rooms by going Door to Door. We will let the people find all the available room in their nearby area at an affordable price range on their Mobile phone or computer. Our main focus is on those peoples who are outsider for that local area and are less known about the place.

KEYWORDS: AWS, S3 Bucket, Django, hypertext markup, web-app, rent.

I. INTRODUCTION

We are stuck with technology when what we really want is just stuff that works. With the current shift in technological field, there is an urgent need to appreciate the power of technology. The housing sector remains vigilant in addressing the challenges of transformation through a new strategy that simplifies the management of rental housing. Tenant Buddy is based on Apartment House rental in major cities. This home rental program is based on owners and customers. Owner is updated with Apartment details, and rent details. Customer information about Room space, room rental and address details also. The Home Rental Plan is the best for the owners as it saves time and communication only with the right person and there is no need to specify room details The Home Rental Program is the best application in an urban area. Customer communication and easy search with the right location of the House and based on Money, Limit Person based on the right house. The Home Rental Program saves time as well. The Rental Management System is used to easily identify the appropriate location during savings, costs as well. This system therefore works best for the above reasons which makes renting the House an easy process with an online system. We are here to provide seamless access to affordable rooms for the needy. The project name is "TENANTBUDDY". This is important because people like students and bachelors often need to find rooms by going from house to house. We will allow people to find all the room available in their immediate area at affordable prices on their phone or computer. Our main focus is on those people who are outside the local area and are less familiar with the area.

II. HISTORY

The philosophy behind Tenant Buddy grew to create an inclusive environment where young people have options but also need to be creative. Employers will have options so they can choose according to their budget and preferences. The burden on owners will be reduced - to find responsible employers, to do background checks and to rush employers to pay their bills. In the future, we believe that Tenant Buddy as a speaker will grow in many other directions, focusing on housing.

➤ Introduction to the Rent Control Act:

The Central Rent Control Act was passed by the legislature in 1948. We regulate property laws and ensure that homeowners or tenants' rights are not exploited by anyone else. It should also be noted that at present, each country has its own Rent Control Act, although very similar to each other, with minor differences.

As a result of the 1948 Strict and Unemployment Act, the real estate market has struggled to grow in some areas. There are leasing properties that have been paying the same amount of rent since 1948, regardless of inflation and rising property prices.

In 1992 the Central Government attempted to introduce amendments to the Act using a proposed model to ensure that property is not burned. Unfortunately, the changes were opposed by the sitting employers and therefore failed to work.

III. TECHNOLOGY USED

The web-app “TENANTBUDDY” is a full stack website created using all the component of front-end and back-end parts. For the front-end HTML5 and CSS3 are used for the complete structure and designing of the website.

HTML is a standard markup language for documents designed to be displayed in a web browser. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

Tailwind CSS is a utility-first CSS framework for rapidly building custom user interfaces. It is a cool way to write inline styling and achieve an awesome interface without writing a single line of your own CSS.

For the back-end part Django, which a framework of Python and AWS i.e. Amazon web services are used for the connectivity and database management.

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of Web development, so you can focus on writing your app without needing to reinvent the wheel. It’s free and open source.

Amazon Web Services (AWS) is a subsidiary of Amazon providing on-demand cloud computing platforms and APIs to individuals, companies, and governments, on a metered pay-as-you-go basis. These cloud computing web services provide a variety of basic abstract technical infrastructure and distributed computing building blocks and tools. One of these services is Amazon Elastic Compute Cloud (EC2), which allows users to have at their disposal a virtual cluster of computers, available all the time, through the Internet.

Amazon Simple Storage Service (Amazon S3) is storage for the Internet. It is designed to make web-scale computing easier. Amazon S3 has a simple web services interface that you can use to store and retrieve any amount of data, at any time, from anywhere on the web. It gives any developer access to the same highly scalable, reliable, fast, and inexpensive data storage infrastructure that Amazon uses to run its own global network of web sites. The service aims to maximize benefits of scale and to pass those benefits on to developers.

Fig. 1 shows the working of AWS server and how the data from the user to the amazon S3 bucket server. The written code with all the objects are passed to S3 bucket and the web distribution is passed to cloud front then the contents in cloud front are then passed to the edge locations.

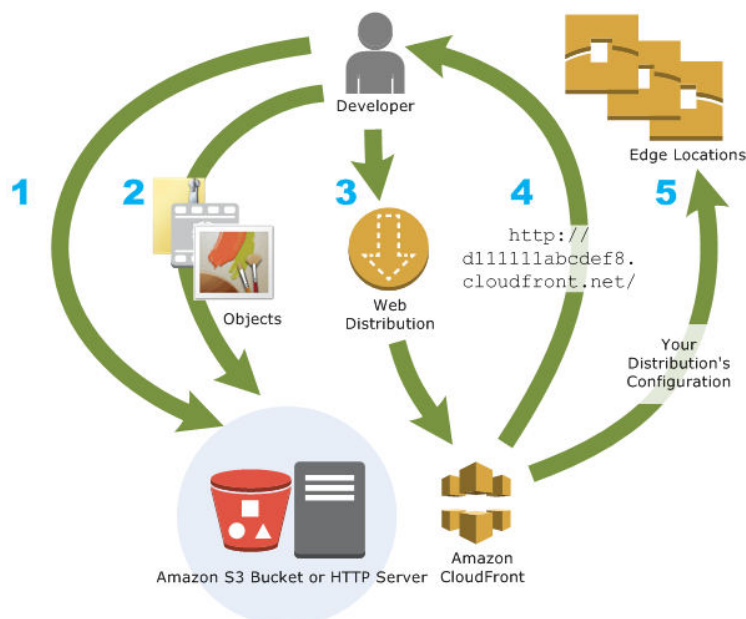


Fig.1 Working of AWS Server

IV. WORKING

Tenant Buddy uses the web technologies, which is rampantly employed these days worldwide. The world without the web is incomprehensible today. That goes to proposed system is technically feasible. Renting a house assists people to measure during a comfortable house once they don't have access to create their own personal homes/houses. The individual who want to rent a house/room/apartment/home must first contact the House rental company for the will House/Home/apartment. This can be done online. At this point, this person has to supply some information such as; dates of rental, and type of house.

Anyone wishing to rent a house / room / apartment / home should first contact the rental company of the House for the purpose of the House / Home / apartment. This can be done online. Here is our new Tenant Buddy project, the Online Room Rental System that will provide rooms available for rent. This website will make it easy to find the location of the Rooms, choose, rooms and other facts of the employer. It will make it easier to load location, contact number, expected tax, no. rooms, amenities and other information by the landlord. This application will be able to display rooms with a specific location of user choice. At this point, the person should provide certain information such as; rental dates, and type of house. After this information has been processed, the landlord must produce a valid Identification Card.

Fig. 2 shows how things work in Django. Django is a python framework used for designing web applications. It works on the basis of URL dispatching having contents present in 'views.py' file which are then passed to 'models.py' file and vice versa then the views present in the templates folder i.e. HTML and CSS files are fetched and passed to the Database.

How things in Django works?

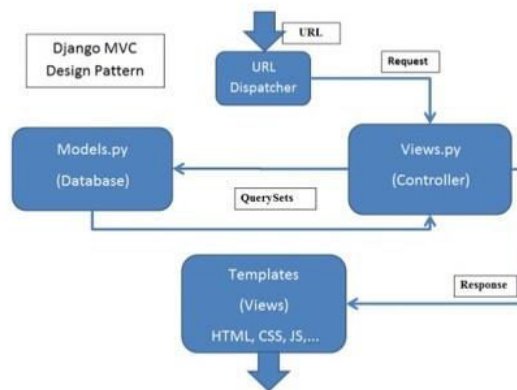


Fig.2 How things in Django works?

V. ANALYSIS

➤ Functional Requirements:

- Demand analysis is a software engineering process consisting of different functions that determine the requirements or conditions that must be met with a new or modified product, taking into account the conflicting needs of different users.
- Operational requirements are those requirements that are used to determine the internal functioning of a system, a program description, and a description of each operating system. It contains what the system has to do, the processes involved, what data the system should handle and the user interaction. The operational requirements identified are:
 - Customer's registration: The system should allow new users to register online.
 - Online reservation of House: Customers should be able to use the system to make booking and online reservation.
 - Automatic update to database once reservation is made or new customer registered: Whenever there's new reservation or new registration, the system should be able update the database without any additional efforts from the admin.



➤ Non-Functional Requirements:

- It describes aspects of the system that are concerned with how the system provides the functional requirements. They are:
 - Security: The system below should provide the highest level of security and integrity of the information held by the system, only authorized employees of the company can access the company's secure page on the system; and only users with a username and password can sign in to view the user page.
 - Operating time and response: The system should have a high performance rate when performing user input and should be able to provide feedback or response in a short time usually 50 seconds of the most difficult task and 20 to 25 seconds for less work.
 - Error handling: Error should be considerably minimized and an appropriate error message that guides the user to recover from an error should be provided. Validation of user's input is highly essential. Also the standard time taken to recover from an error should be 15 to 20 seconds.

VI. PROBLEM

Many people settle in a new city for education or work and does not have any idea about where to live. They don't know which room or flat is affordable to stay, which facilities are provided, what will be the rent, what amenities are covered in rent or not. To get to know all these things Bachelors or students or workers need to roam around the city and have to go Door to Door to find out the place to live.

VII. SOLUTION TO THE PROBLEM

Here our project i.e. Tenant Buddy comes into play, it is an Online Room Rental System which will provide the Information about Rooms which is available for Rent. This application will make easy to find the location of Rooms, select no. of rooms and other facts by the renter. It will make easy to upload the location, contact number, expected rent, no. of rooms, Facilities and other information by landlord/room-master. This application will be able to show the rooms with in a particular area selected by user.

VIII. CONCLUSION

We concluded that people leaving home to move to another city needed more than a house. They needed a place they could call home, a community where they would be welcomed and a platform that allowed them to connect with various other places of access.

Successfully resolving apartment issues is important for the future of the buyer, Project Rental Home will be an important tool to build resilience of rental housing by helping tenants speak more honestly by establishing and documenting communication and building meaningful relationships with sellers. The Home Rental project provides buyers of certain housing organizations and social dealers with the International Journal of Pure and Applied Mathematics Special Issue 1681 an easy way to report and plan building renovations. Ultimately, the aim of the project is to build better relationships between employers and vendors that can be achieved through this project.

IX. RESULTS AND DISCUSSION

Advantages

- Eliminate paper-based process
- Intuitive & user-friendly
- Customization and flexibility
- Optimal resource allocation
- Highly secure



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