



IJIRCCCE

e-ISSN: 2320-9801 | p-ISSN: 2320-9798



INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 10, Issue 4, April 2022

ISSN INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA

Impact Factor: 8.165



9940 572 462



6381 907 438



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www.ijircce.com

A2E- A Renting Website Where You Can Rent Anything and Everything

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ABSTRACT: Most jurisdictions, including India, Spain, Australia, the United Kingdom, and the United States, do not deduct rent paid in a business or trade from taxable income. However, most jurisdictions do deduct rent on a residence from taxable income. "Renting by necessity" refers to financial inadequacy, such as the inability to purchase a house. The ability to reduce financial risk resulting from depreciation and transaction costs, especially when it comes to investments that may only last a short time. An item or service needed for a short period of time, such as a special tool, a truck, or a skip. It is necessary to rent something if an item is not nearby and may or may not be owned. An example is when you are on a trip and the automobile or bicycle is being rented. A rental agreement, also called a hiring or a letting agreement, refers to an agreement whereby the tenant pays for the temporary use of the service, property or good of another. An owner pays for all charges incurred by the property on a gross lease, which is an arrangement where the tenant pays a rent amount. A common example of renting is equipment. Renting can be an example of the sharing economy. A2E helps these people who are having trouble with buying. Customers can choose whether they want to rent the product and for how long they want to do so. Rent can be thought of as part of the revenue which is paid to the owner for the use of his goods and services.

I. INTRODUCTION

It has been argued that the meaning of rent has varied over time in economics. As a result, rent only pertains to payments for factors of production which are imperfectly elastic in supply. Land, for example, is rented out at a price. Considering that economic rent is received by owners without any effort, it can also be considered surplus. The term "economic surplus" is credited to Boulding. Moreover, Joan Robinson and Boulding among other modern economists have also utilized the term. In Opil, it was stated that rent can account for a part of each factor's income. Obviously, different factors use different resources in the same way. As such, each factor is employed for the purpose in which it will generate the most income. The opportunity cost of a factor in terms of how much it would earn if employed in an activity that yields maximum income is the amount of output that can be earned by using that factor in an alternative activity.

1.1.1 Overview

The types of rent include:

Below is a list of the major types of rent:

1. Economic Rent:

Economic rent refers to the payment made for the use of land alone. But in economics the term rent is used in the sense of economic rent. In the words of Ricardo and other classical economists, economic rent corresponds to the payment for the use of land alone. Since it is generated without any effort on the part of the landlord, this rent is also called Economic Surplus. Prof. Boulding referred to "monetary surplus".

2. Gross Rent:

Gross rent is the rent which is paid for the services of the land and the capital invested in it.

Gross rent consists of:

- (1) Economic rent. It refers to payments made for the use of land.
- (2) Interest on capital invested in the improvement of land.
- (3) The reward for the risk taken by the landlord in investing his capital.



3. Scarcity Rent:

Scarcity rent refers to the price paid for the use of homogeneous land when its supply is limited in comparison with demand. If all land is homogeneous but demand for land exceeds its supply, the entire land will earn an economic rent by virtue of its scarcity. In this way, rent will arise when the supply of land is elastic. Prof. Ricardo opined that land was beneficial, but it was also scarce. Productivity of land was indicative of the generosity of nature, but its total supply remaining more, or less fixed, symbolized the niggardliness of nature.

4. Differential Rent:

Differential rent refers to the rent which arises due to differences in the fertility of land. In every country, there exists a variety of land. Some lands are more fertile and some are less fertile. When farmers are forced to cultivate less fertile land, the owners of more fertile land get relatively more production. This surplus, which arises due to differences in the fertility of land, is called differential rent. This type of rent arises under extensive cultivation. According to Ricardo, "In order to increase production on the same type of land, more units of labor and capital are employed."

5. Contract Rent:

Contract rent refers to that rent which is agreed upon between the landowner and the user of the land. Contract rents may be more or less than economic rent, depending on the contract, whether verbal or written.

Why People Prefer Renting?

The first is flexibility and access to opportunities that comes with it. It's okay to turn down a better job because you don't want to sell your home or deal with a long commute, but it's not okay to buy a home in one part of town, take a job in another area and end up with a 90-minute commute. Consider how many households there are across the country. Due to the high costs of owning and selling property, owning a home tends to lock people in.

Diversification of risk is offered by renting. Those in the rental market have a broader array of assets to choose from. Moreover, renters aren't stuck holding the bag if their regional economy dries up and home prices decrease. Stocks, bonds, mutual funds, and other investments renters might make in the future may enhance economic growth and innovation, whereas buying a home takes money out of circulation.

Why people choose to rent

Many are banking on living the American Dream eventually

'Renting is a good choice for me now: I can't afford a home but would like to'

38%

'No interest in ever owning a home'

20%

'I want to own a home and am working towards it'

15%

'Renting is a good choice for me now: I can afford a home and will at some point'

14%

'I want to own but feel will never be able to afford'

14%

- No Maintenance or Repair Costs.
- 0% Down Payment.
- Flexibility in Where You can Live.
- Very Few Concerns About Property or Service.
- Flexibility in Downsizing.
- Fixed Rent Prices.
- You're not tied to it for long-term.

1.1.2 Purpose

A2E is primarily geared toward providing a simple and effective interface for a person who is looking for products. This will enable him to be able to get in touch with others who have excess or don't use them. Some customers or clients need the product, but don't want to buy it or own it because they won't need it for awhile, or don't want to clutter their homes with it:

- Ensure that the website functioned properly, receiving posts from renters and displaying them for other users. To locate the renter's place, this address is also sent to the renter's enquirer.

1.1.3 Significance

Our goal is to make sure people in need and discontent with spending money to buy are placed at the centre of the process. We provide a platform where you can rent from verified users who are willing to lend their products to you for a specific period of time. We make sure that the user receives a response from the renter. To develop a fully functional website where people will be able to connect and fulfil their needs. Looking at these statistics alone was one of the main factors in developing this application. The website has been developed on a web-based platform. Once the application opens, it displays the latest and newest listings for rent. There have been times when the renter has already rented the same thing you need so you can check with other renters or contact the owner of the website and request it through email. Continually changing trends and daily occurrences have plagued this country for ages. Our view led us to do some research and we found that many people don't only want property on rent, but also want appliances and much more on rent, even clothes for a month! A clear solution must be carved out for the youth in India facing these problems- 'A2E'.

1.1.4 Objective

- Renting products or furniture to people who need them.
- Required object is available or is displayed for the given time period.
- Users can get access to electronic devices, clothes, or anything they desire, and rent it for the days they want.
- Our main objective is to let people rent anything to everything.

II. PLATFORM AND TECHNOLOGY USED

1.2 CSS

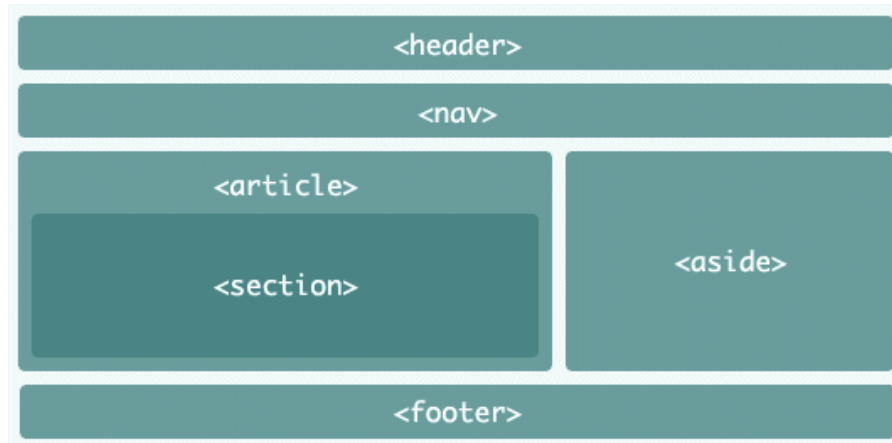
```
26 .screen-reader-text: hover,
27 .screen-reader-text: active,
28 .screen-reader-text: focus {
29     background-color: #f1f1f1;
30     border-radius: 3px;
31     box-shadow: 0 0 2px 2px rgba(0, 0, 0, 0.6);
32     clip: auto !important;
33     color: #21759b;
34     display: block;
35     font-size: 14px;
36     font-size: 0.875rem;
37     font-weight: bold;
38     height: auto;
39     left: 5px;
40     line-height: normal;
41     padding: 15px 23px 14px;
42     text-decoration: none;
43     top: 5px;
44     width: auto;
45     z-index: 100000; /* Above WP toolbar. */
46 }
47
```

Web documents can be styled quickly and easily with CSS. The CSS acronym stands for "Cascading Style Sheets". This tutorial covers both CSS1 and CSS2, as well as CSS3, and will give you a comprehensive understanding of the language, beginning at its basics and going through advanced concepts. What are the benefits of learning CSS? CSS is a simple design language intended to make the process of creating visually pleasing web pages easy.

1.3 HTML 5

HTML stands for Hyper Text Markup Language, which is the most widely used language on the Web to develop web pages. HTML was created by Berners-Lee in late 1991 but "HTML 2.0" was the first standard HTML specification

which was published in 1995. HTML 4.01 was a major version of HTML and it was first released in late 1990s. Even though HTML 4.01 is widely used, HTML-5 is an extension to HTML 4.01, and this version was published in 2012.



Why to Learn HTML?

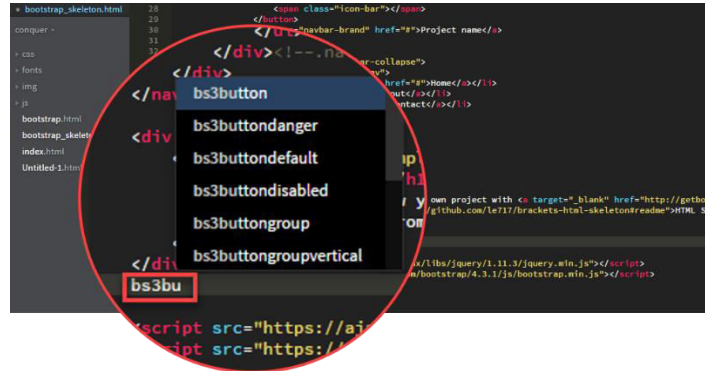
- Originally, HTML was developed with the intent of defining the structure of documents like headings, paragraphs, lists, and so forth to facilitate the sharing of scientific information between researchers. In today's world, HTML is widely used to format web pages with the aid of tags that are available in HTML.
- HTML is a MUST for students and working professionals to become a proficient Software Engineer, especially when they are working in the Web Development Domain. I will list down some of the key advantages of learning HTML:
- Create Web site - You can create a website or customize an existing web template if you know HTML well.
- Become a web designer - If you want to start a career as a professional web designer, HTML and CSS designing is a must skill.
- You should know HTML if you wish to optimize your website to enhance its speed and performance.
- Once you understand HTML, you can easily learn other related technologies such as JavaScript, PHP, and Angular.

Applications of HTML

As mentioned before, HTML is one of the most widely adopted languages on the web. I'm about to list a few of them here:

- Web pages development - HTML is used to create pages which are rendered over the web. To render the details of a web page in the browser, it contains html tags.
- Internet Navigation - HTML provides tags which are used to navigate from one page to another and is heavily used in internet navigation.
- Responsive UI - HTML pages now-a-days work well on all platforms, mobile, tabs, desktop or laptops owing to responsive design strategy.
- When HTML pages are loaded, they can be made available offline on the machine without the need of an internet connection.
- Game development- HTML5 has native support for rich experience and is now useful in the gaming development arena as well.

1.4 BOOTSTRAP 5



Bootstrap makes it easy to build and design web pages and web applications by combining HTML, CSS, and JavaScript tools. The Bootstrap project was originally created by (and for) Twitter in 2011, and is available on GitHub. It became popular very quickly after its open-source release, and for good reason. Due to its flexibility and ease of use, Bootstrap is popular with web designers and developers. There are numerous advantages to it, including the fact that it is responsive by design, it maintains wide browser compatibility, it uses re-usable components to provide consistent design, and it is an easy tool to work with. Bootstrap offers a rich extensibility feature based on JavaScript and comes with support for jQuery plug-ins. It can be used with any IDE or editor, and with any server-side language and technology, from ASP.NET to PHP. As a result, web developers can focus on developing websites rather than designing them. Moreover, it provides a solid foundation for web designers to create interesting Bootstrap themes. Both precompiled and source code versions of Bootstrap are available. There is also an official SASS version of Bootstrap available for those who prefer it. Less is used as a CSS preprocessor in the source code version of Bootstrap. Bootstrap makes CSS vendor prefixes easier to access using Autoprefixer.

Style source code written in Less (or SASS), all JavaScript, and documentation is included in the source code version. Developers and designers can then modify and customize all the styles provided and create their own Bootstrap version, according to their liking. However, if you aren't familiar with Less (or SASS), or you're not interested in changing the source code, you need not worry. Simply use the vanilla CSS that has already been precompiled. You may override all the styles later if you wish. This is a fairly straightforward structure. It includes precompiled files that enable quick usage in any web project. Besides compiled and minified CSS and JS files, it also includes fonts from Glyphicons, and the optional starting Bootstrap theme.

This structure can be easily incorporated into your own project's file structure by simply copying the Bootstrap files exactly as they come out of the zip archive. Alternatively, if it suits your project better, you can rearrange these files and place them anywhere you like. Just be sure that the Glyphicons fonts folder is on the same level as the CSS folder.

1.5 DJANGO

Using Django, you can quickly build secure, maintainable websites based on Python. Thanks to Django's developer-built code, you don't have to worry about much of the trouble of web development, so you can focus on writing your app instead of reinventing the wheel. It is free and open source, has a thriving and active community, detailed documentation, and many options for free and paid-for support.

Django helps you write software that is:

- Complete

Django follows the "Batteries included" philosophy and provides almost everything developers might want to do "out of the box". Because everything you need is part of the one "product", it all works seamlessly together, follows consistent design principles, and has extensive and up-to-date documentation.

- Versatile

Django can be (and has been) used to build almost any type of website — from content management systems and wikis, through to social networks and news sites. It can work with any client-side framework, and can deliver content in almost any format (including HTML, RSS feeds, JSON, XML, etc).

Internally, while it provides choices for almost any functionality you might want (e.g. several popular databases, templating engines, etc.), it can also be extended to use other components if needed.

- Secure

Django helps developers avoid many common security mistakes by providing a framework that has been engineered to "do the right things" to protect the website automatically. For example, Django provides a secure way to manage user accounts and passwords, avoiding common mistakes like putting session information in cookies where it is vulnerable (instead cookies just contain a key, and the actual data is stored in the database) or directly storing passwords rather than a password hash.

A password hash is a fixed-length value created by sending the password through a cryptographic hash function. Django can check if an entered password is correct by running it through the hash function and comparing the output to the stored hash value. However due to the "one-way" nature of the function, even if a stored hash value is compromised it is extremely difficult for an attacker to work out the original password.

Django enables protection against many vulnerabilities by default, including SQL injection, cross-site scripting, cross-site request forgery and clickjacking (see Website security for more details of such attacks).

- Scalable

Django uses a component-based "shared-nothing" architecture (each part of the architecture is independent of the others, and can hence be replaced or changed if needed). Having a clear separation between the different parts means that it can scale for increased traffic by adding hardware at any level: caching servers, database servers, or application servers. Some of the busiest sites have successfully scaled Django to meet their demands (e.g. Instagram and Disqus, to name just two).

- Maintainable

Django code is written using design principles and patterns that encourage the creation of maintainable and reusable code. In particular, it makes use of the Don't Repeat Yourself (DRY) principle so there is no unnecessary duplication, reducing the amount of code. Django also promotes the grouping of related functionality into reusable "applications" and, at a lower level, groups related code into modules (along the lines of the Model View Controller (MVC) pattern).

- Portable

Django is written in Python, which runs on many platforms. That means that you are not tied to any particular server platform, and can run your applications on different operating systems such as Linux, Windows, and macOS. Furthermore, Django is well-supported by many web hosting providers, who often provide specific infrastructure and documentation for hosting Django sites.

Where did it come from?

Django was initially developed between 2003 and 2005 by a web team who were responsible for creating and maintaining newspaper websites. After creating a number of sites, the team began to factor out and reuse lots of common code and design patterns. This common code evolved into a generic web development framework, which was open-sourced as the "Django" project in July 2005.

Django has continued to grow and improve, from its first milestone release (1.0) in September 2008 through to the recently-released version 4.0 (2022). Each release has added new functionality and bug fixes, ranging from support for new types of databases, template engines, and caching, through to the addition of "generic" view functions and classes (which reduce the amount of code that developers have to write for a number of programming tasks).

1.6 VISUAL STUDIO

Visual Studio Code combines the simplicity of a source code editor with powerful developer tooling, like IntelliSense code completion and debugging.

First and foremost, it is an editor that gets out of your way. The delightfully frictionless edit-build-debug cycle means less time fiddling with your environment, and more time executing on your ideas. At its heart, Visual Studio Code features a lightning-fast source code editor, designed for day-to-day use. With support for hundreds of languages, VS Code helps you be instantly productive with syntax highlighting, bracket-matching, auto-indentation, box-selection, snippets, and more. Intuitive keyboard shortcuts, easy customization and community-contributed keyboard shortcut mappings let you navigate your code with ease.

For serious coding, you'll often benefit from tools capable of understanding more than just blocks of text. Visual Studio Code includes built-in support for IntelliSense code completion, rich semantic code understanding and navigation, and code refactoring. And when the coding gets tough, the debugging gets tougher. Debugging is often the one feature that developers miss most in a leaner coding experience, so we made it happen. Visual Studio Code includes an interactive debugger, so you can step through source code, inspect variables, view call stacks, and execute commands in the console. VS Code also integrates with build and scripting tools to perform common tasks making everyday workflows faster. VS Code has support for Git so you can work with source control without leaving the editor including viewing pending changes and diffs.

1.7 WEB PORTALS

What is the meaning of web portals?

A portal is a web-based platform that collects information from different sources into a single user interface and presents users with the most relevant information for their context. Over time, simple web portals have evolved into portal platforms that support digital customer experience initiatives.

Web Portals: Key Facts and Popular Types of Portals: -

- B2C portal.
- B2B portal.
- Service portal.
- Partner portal.
- Community portal.
- Learning portal.

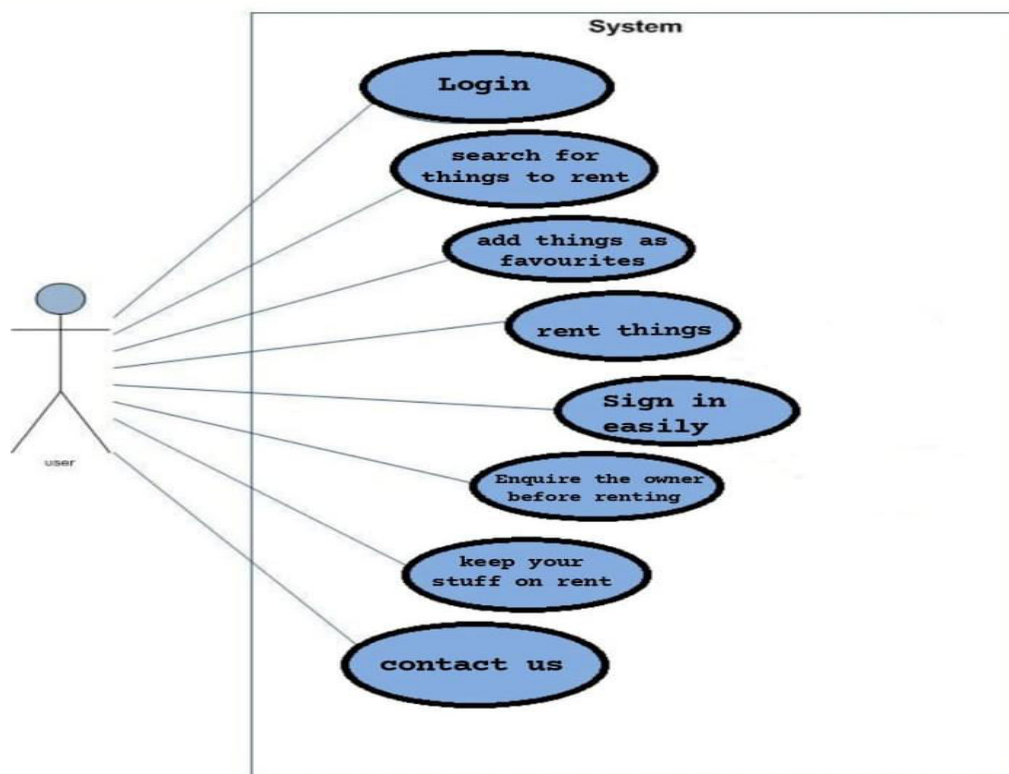
Here is a look at some of the top features that every custom web portal should have:

- Interactive Homepage.
- Dashboard Recap.
- User Personalization.
- Easy Access To Information.
- Tracking Tools.
- Content Management.
- Self-Service Tools.

How is a Web portal different from a website?

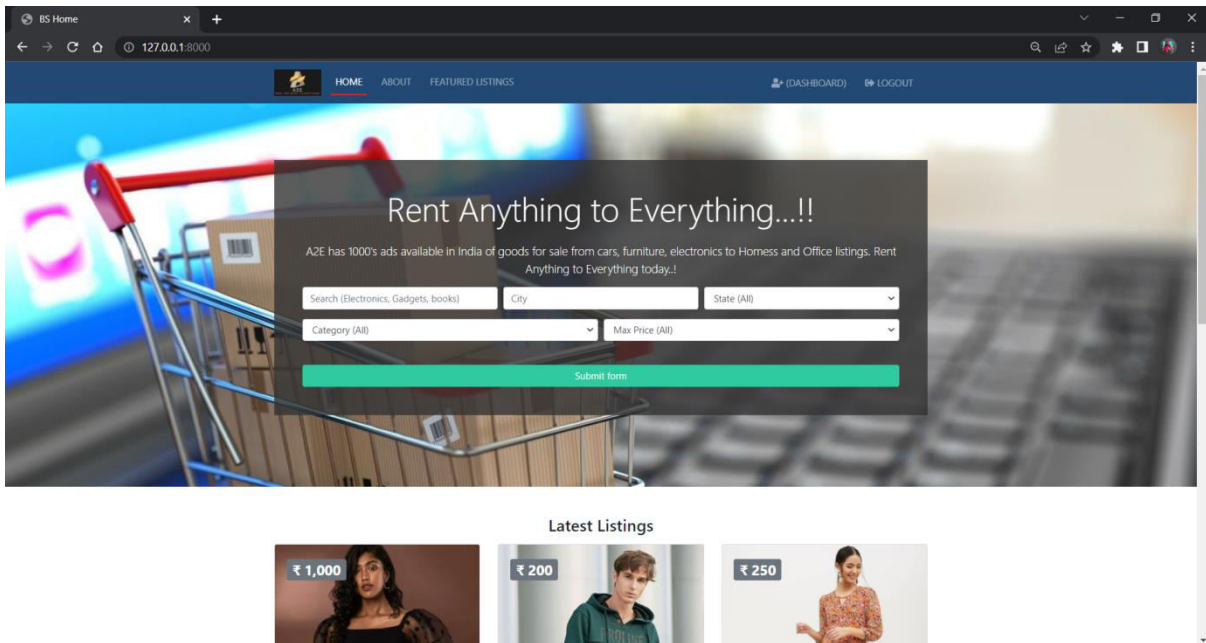
Websites are for driving traffic, whereas web portals are for limiting traffic to a specific group of users. Most web portals require a user to log in, which allows the site to deliver more specific content and services based on who that user is.

III. USE-CASE DIAGRAM

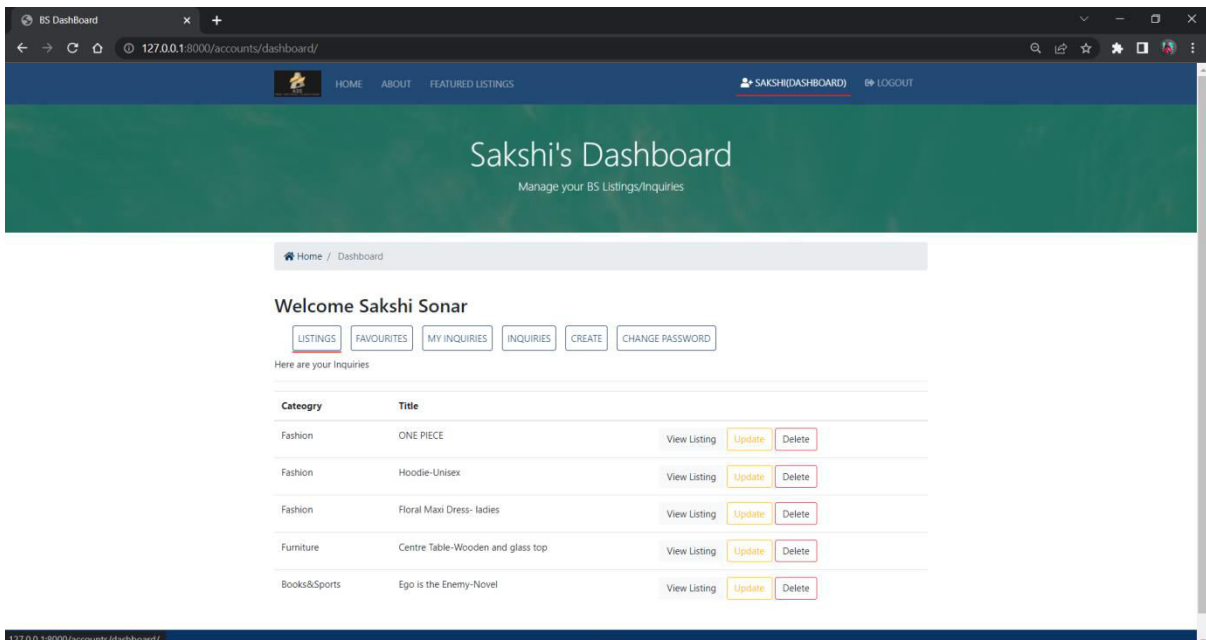


VI. OUTPUT OF OUR APPLICATION

4.1 HOMEPAGE

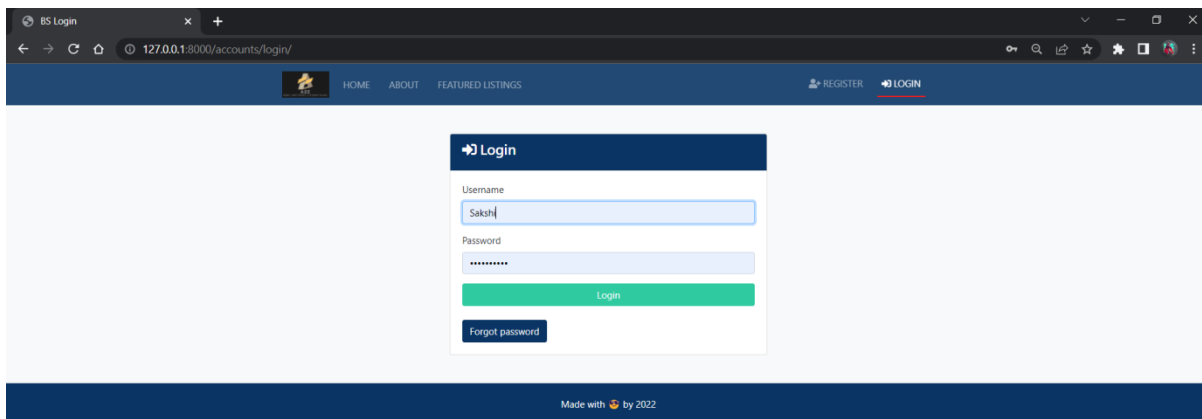


4.2 DASHBOARD

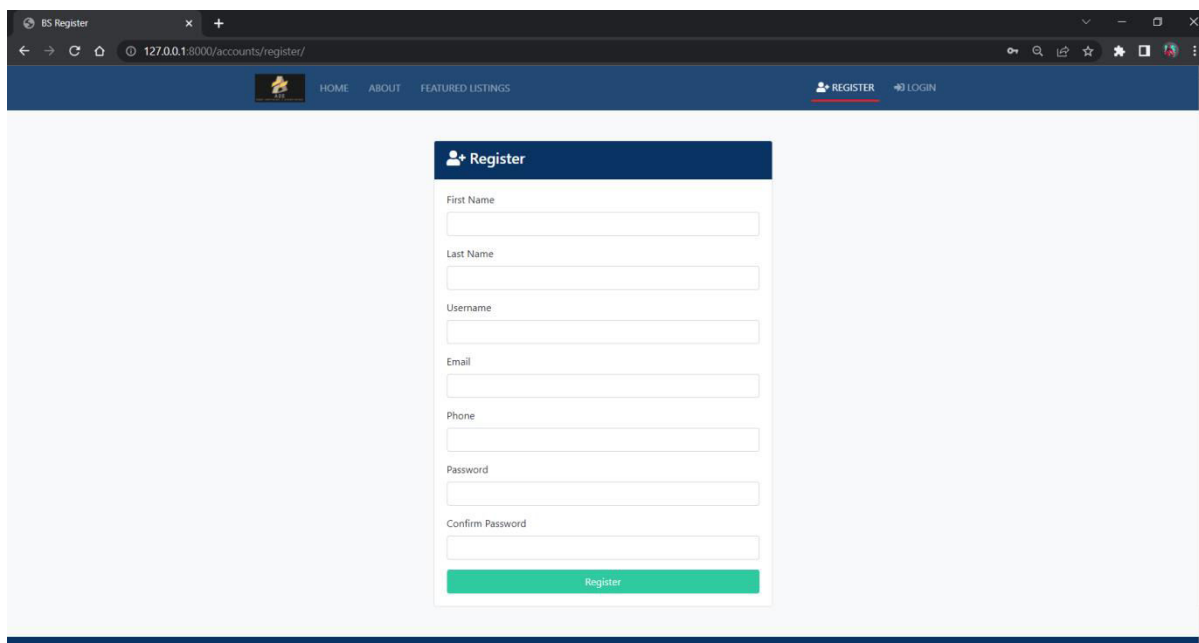




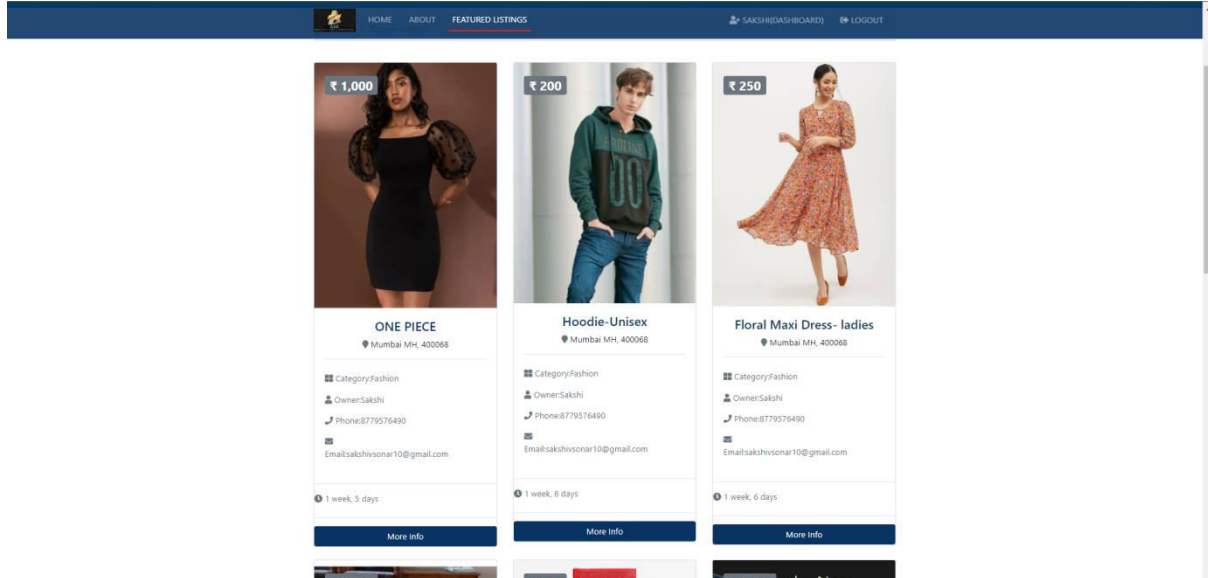
4.3 LOGIN PAGE



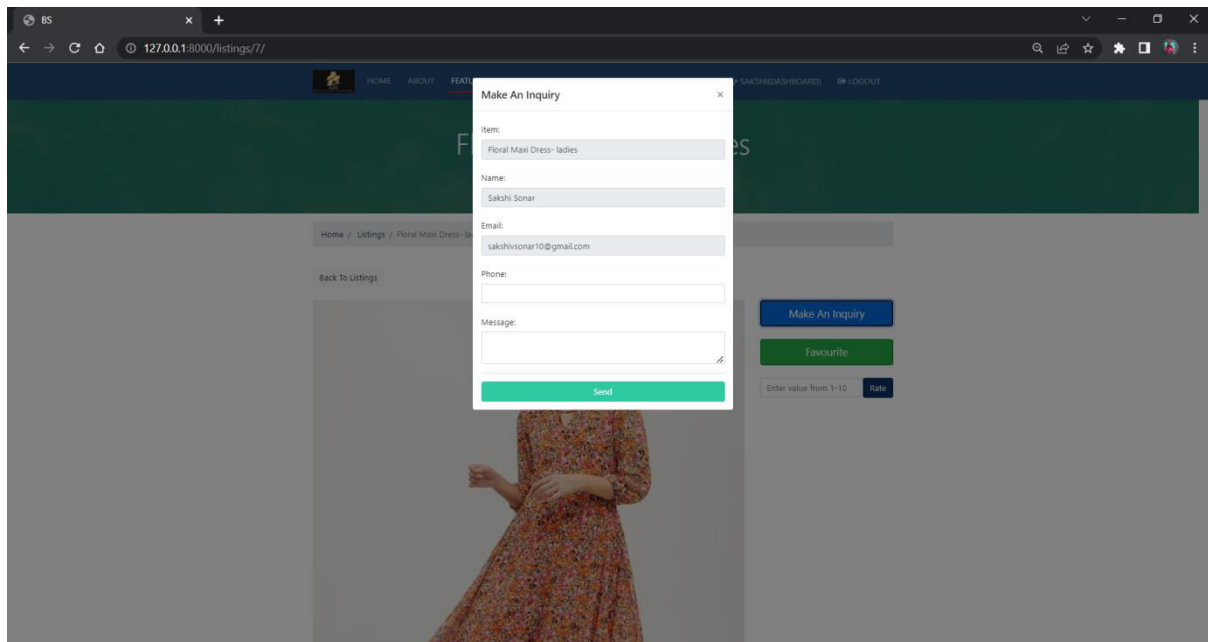
4.4 SIGN UP PAGE



4.5 LISTINGS



4.6 ENQUIRY



V. CONCLUSION

It has been an incredible learning experience for us to develop the project A2E. We learned about various phases of project development and web development in the world of software engineering. Our experience in handling issues and dealing with logic and bugs in the developer industry gave us an insight into the industry. Through this course we were able to gain a great deal of information about the working, structure and use of Website creation, client and server, Bootstrap, CSS and many other tools and platforms. The program was designed to serve the needs of our users and to enable them to prefer renting to buying at any time. Need for daily use and need for short-term use, you prefer to rent for short-term uses, while purchasing for daily necessities. Our objective was to make the application as user-friendly as possible so that everyone can use it with no major difficulties. Similarly, to web development where there are always



some shortcoming and room for improvement, the same applies to this application. Analysis, design, development, testing, and deployment of the application have been successful. It is our hope that making this application available to young generations will allow them to go with the flow and adapt things to suit their needs. Today, it has become vital for users to be able to trust and rent items and products we need, or even just books to read, or books you need only for a certain period of time. An application like this fills in the gap by providing a bridge. In the poll, it appeared that many people who are short on money or are starting their own families, as well as a family who only has one in the house to support five or more prefer to rent instead of buying.

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