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Development of 2D & 3D Architecture Management

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ABSTRACT: Interior design is about our experience with places and shaping indoor spaces with beautiful aesthetics. By definition, it is “the art and science of enhancing the interiors of a space to achieve a healthier and aesthetically pleasing environment. “Related to architecture, interior design involves designing man-made spaces to make them pleasant and comfortable.

The purpose of the website is to provide end consumers with different designs by just one click. They can even have a glimpse of the designs they like with our integrated software which shows the designs in 2D and 3D. The website will have tools to help consumers make their dream home come true. It will also have some project samples.

We hope this idea will help people make the right choice with their interior designs.

KEYWORDS: Interior designing, website, projects, designing tools

I. INTRODUCTION

Do you want a luxurious home? You want a designer who understands your needs? Our project helps clients to visualize and make their imagination come true with the help of our software. We also provide consumers with our past projects so that they will have no hard time choosing our service from the website. Even though each project is unique, all clients expect the same high-quality, consistent results — and they want them on time and within budget. Our tools make it possible. Our services include home decors, office interior designing, and other workplace designing.

Interior decorating is the art of decorating a residential home or commercial business according to a client's personal preferences and style. It includes selecting color schemes, flooring materials, furniture, artwork, and accessories. It transforms an area into an aesthetically pleasing and budget-friendly design.

Interior decorating is often associated with interior design. Though they go hand in hand, interior decorators differ from interior designers. Interior designers perform the same tasks as decorators but must receive formal education and professional certification by the National Council for Interior Design Qualification. On the other hand, interior decorators are not required to receive formal education or professional experience. Both partner with service professionals to accomplish design work, but interior designers may work with contractors to change structural elements. Interior decorators rarely make structural changes and focus on the visuals of a space.

II. RELATED WORK

First we started with a plan and road map for our website. We researched different technologies used to build a website. With that done we settled with HTML, CSS & javascript. First we started working on the front end. It includes the look and feel of the website. The elements placement on the website and other contact related things. This wasn't that easy given it was built from scratch. Next after being done with the front end, we started working on the backend. Here we had to work a lot on things like security, transaction api, 3D planner tool api and many more. After the back end was done, we started working on servers and databases. This was the trickiest as it was our first time working on databases and servers. Then after the structure was built, we had to do testing and fix errors and bugs if they exist. Then finally the website was working perfectly with no issues.

III. APPROACH

Aim of this website is to maximize the network of people and make it one stop for all customer needs related to interior design. Simple fact of opting for our service is that we understand your needs and bring your dream home alive. Interior Designing is not just about looks and beauty, we are experts in creating more spaces, improving the space

efficiency, improving the functional usage of space, improving the lighting effect, improving the color effects, improving the textures, patterns, scale, size etc.

Having an upper hand in interior designing can help you to avoid costly mistakes that will not only help you save money but can increase the value of your home.

IV. DEVELOPMENT

We have used various components to build our website. The techniques can be generally divided into the following categories: Servers, Backend Development, Frontend Development.

Frontend

The website will be based on HTML, Javascript and CSS. This will help us make various designs and adjustments to our website.

Backend

Our backend is based on PHP, javascript and a few api's. This will enable us to make things like transactions, user data uploading securely behind the scenes.

Server

Amazon Web Services will be used as Server. Various modules like S3, EC2 will be used while building the website which will help in maintaining data files and keeping the server active 24*7

Resources Used

- Visual Studio Code
- Java Script
- HTML
- CSS
- .NET
- Database
- Design Tools

V. WEBSITE RESULTS

Modules of the project-

1. Sign in/Sign up: This is the first stage, here the sign-in and sign-up elements are displayed. The user can sign in from their account, or can sign-up if they do not have an account.
2. Homepage: In this stage we give users a brief introduction about us.
3. Designing Tools: This helps clients to play around with tools for a short time. It's like a demo.
4. Projects: In this section all our past and recent projects are displayed.
5. Contact Us: This will help users to contact us if they want to opt in for our service or need to solve queries around interior designing.
6. 3D Planner Tool: This is the main highlight of our website. This will enable the user to make his own designs based on their needs.

2D - 3D Floor Planner Tool

When you are rearranging, moving into a new house or planning a renovation, having a floorplan can be a great help! It makes communication about your ideas easier and more efficient. Floorplanner lets you start making your own floor plans right away.

Use of tool

Floorplanner allows users to make accurate 2D plans and compelling 3D images with their own products. Thanks to our Magic Layout and roomstyle sets per room type, making a customer presentation was never easier and faster. You can even add your own custom Room Planner to the website and easily generate new leads. Customers' expectations are fulfilled more easily, saving time and costs.

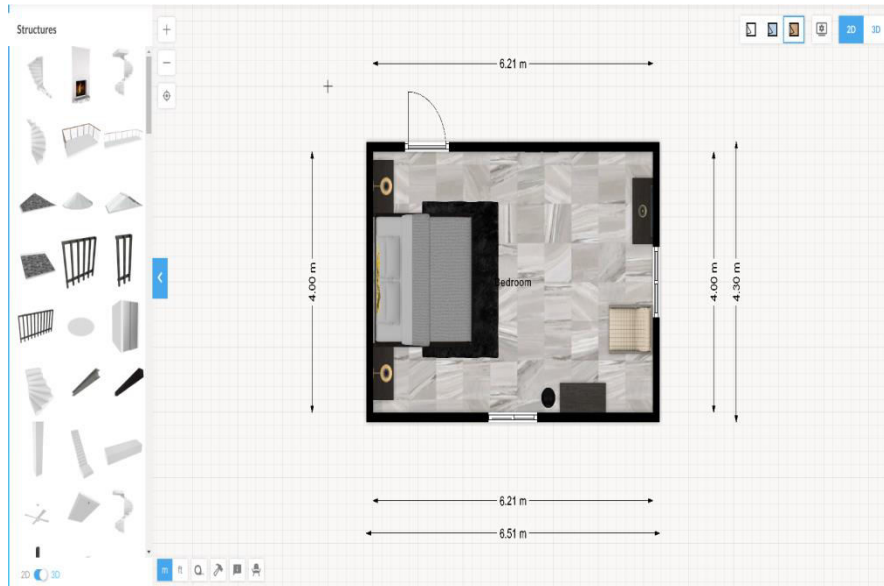


Fig.1. 2D View and options to add materials



Fig.2. 3D View and options to move around and adjust lightings

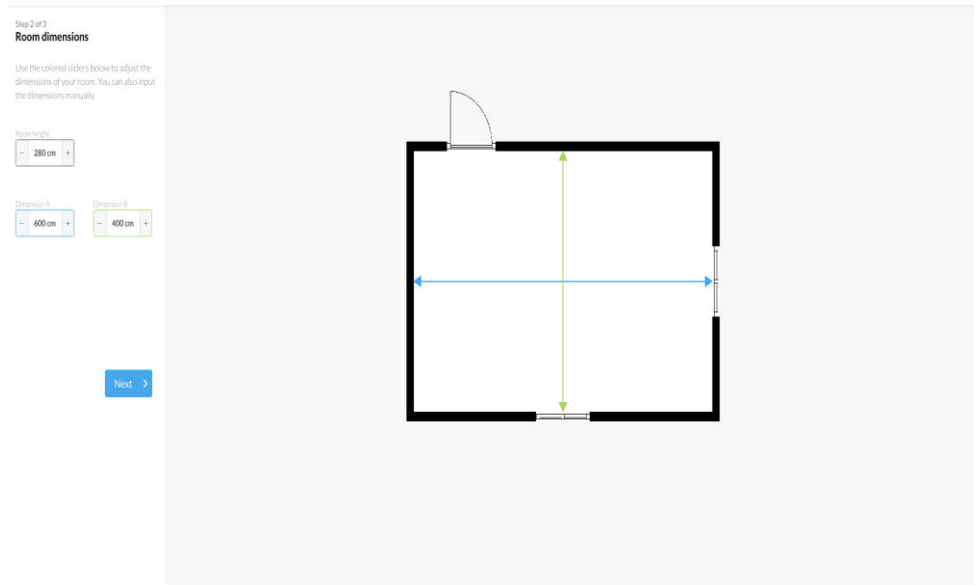


Fig.3. Option to enter dimensions and resize the room

VI. CONCLUSION

The simulation tool showed that any design creation is possible with the help of the tool. Interior design needs special knowledge and requirements to be able to succeed in the profession. Interior design needs some means of organization to arrange interior space and design elements. The interior designer tool must choose the appropriate style based on the place, the user and other factors, and match that to all themes of the design.

VII. ACKNOWLEDGEMENT

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