

HomeSpiration

Your creative home improvement companion

Topic : Project Abstract Report

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Where Thou Art That is HOME

This project introduces a dynamic platform that seamlessly connects Companies, Admin, and Customers in the construction industry. Companies can register and showcase their outstanding construction projects, complete with contact information. Simultaneously, Customers can register and access the latest projects from registered Companies, enabling them to make informed decisions.

Customers, when logged in, can explore the showcased projects, express interest, and establish communication with Companies of their choice. In cases where a customer does not find a suitable project, they have the option to describe their ideal home. Leveraging OpenAI's advanced technology, a diffusion model is generated to visually represent the customer's envisioned home.

On the interface, the customer has access to detailed information about registered companies on the right side of the screen. Communication with companies is facilitated, allowing customers to send the generated diffusion model as part of their preferences. To enhance the customer experience, a "Generate 3D Model" button is incorporated, enabling users to visualize a sample 3D representation of their envisioned project.

The Admin oversees site maintenance and security, ensuring a seamless and up-to-date user experience.

This platform not only streamlines communication between Companies and Customers but also leverages cutting-edge technology to provide customers with a unique and personalized experience in visualizing their dream homes.

MODULES :

1. User Management:

Easy sign-up with email verification.

Customize your profile with a picture.

Forgot your password? No worries, we've got you covered!

Add an extra layer of security with two-step verification.

Control who does what with role-based permissions.

2. Admin Panel:

A dashboard with cool stats about the site and users.

Keep an eye on what users are up to with activity logs.

Get automatic alerts if something fishy is happening.

Only let trusted folks handle admin tasks.

Make sure the content on the site is top-notch with moderation tools.

3. Company Registration and Profile:

Showcase your projects with a simple form and cool pics.

Show off where your projects are on an interactive map.

Upload a bunch of your best work for everyone to see.

Sort projects easily with categories.

Make your company profile stand out with a logo and banner.

4. Customer Registration and Profile:

Tell us what you like during sign-up for a personalized experience.

Spice up your profile with your social media links.

Keep things private or public – you're in control.

See your past projects at a glance.

5. Project Showcase:

Rate and review projects to help others.

Connect with project management tools for smooth updates.

Shine a spotlight on your favorite projects.

Find projects easily with tags and categories.

Team up with others to work on a project together.

6. Communication Module:

Chat in real-time and get instant updates.

Share documents or pics in your messages.

Talk with a group of people all at once.

Know when your message is read.

Use your favorite communication apps seamlessly.

7. AI Integration for Home Visualization:

Describe your dream home, and let us show you a sneak peek.

See what you've created before for inspiration.

Get a virtual tour with augmented reality.

Tweak and adjust your virtual home until it's perfect.

Compatible with popular 3D design tools.

8. Company Details and Communication:

Schedule a meeting with companies effortlessly.

Ask questions and get quick answers with live chat.

Stay in the loop with company updates.

Track response times for smooth communication.

Find the perfect company with advanced search.

9. 3D Model Generation:

Collaborate on 3D models with your team.

Customize your model until it's just right.

Use the 3D model with your favorite design tools.

See every detail with high-quality rendering.

Download and share your 3D masterpiece.

10. Dashboard:

Cool graphs and charts to see your project stats.

Personalized suggestions for your next project.

Connect with other services you love.

Customize your dashboard with widgets.

Quick access to recent projects and messages.

11. Security Measures:

Keep your data safe with regular check-ups.

Your messages and info are super private with encryption.

Only see what you need to with different access levels.

Make sure your password is super strong.

Stay logged in securely with smart session management.

12. Site Maintenance:

Back up your stuff automatically.

Plan for big growth in the future.

Tell us what you think so we can get better.

Fix things up regularly with scheduled maintenance.

We're ready to tackle any big issues ASAP!

LANGUAGES USED :

Front End : HTML/CSS

Back End : Python Django