

# MAKAN

## Project Description:

This platform is a web-based solution designed for the architecture and interior design field. It connects clients with professional engineers and provides innovative services powered by AI and 3D technologies.

Clients can book online consultations, request AI-generated interior designs, or try 3D furniture simulations for their spaces. Engineers manage their sessions, upload design files, and collaborate with clients through the system.

The platform also integrates file management, payments, and role-based access control (Client, Engineer, Admin) to ensure a smooth workflow. By combining traditional consultation with AI-powered creativity and interactive 3D tools, the project offers a modern, efficient, and user-friendly experience for both clients and engineers.

## Requirements:

### 1. Different Interfaces for Admin, Clients, and Engineers:

- 1.1. Separate dashboards for Admin, Client, and Engineer with distinct functionalities.
- 1.2. Admins can manage users (approve engineers, block accounts), oversee files, and control 3D/AI libraries.
- 1.3. Clients can register, log in, upload files, book consultations, use AI Decor, and view their results.
- 1.4. Engineers can accept client requests, manage consultation sessions, upload design files, and maintain their portfolio.

### 2. File & Service Management System:

- 2.1. Clients can upload files (images, PDFs, AutoCAD plans) linked to their requests.
- 2.2. Engineers can upload final deliverables (PDFs, CAD files) after consultations.
- 2.3. AI Decor requests allow clients to upload room images and select styles to generate designs.
- 2.4. A 3D Viewer allows clients to test furniture models inside their rooms (using three.js or Babylon.js).

### **3. Consultation & Order Management System:**

- 3.1. Clients can schedule and manage consultation sessions with engineers via Zoom/Twilio integration.
- 3.2. Sessions are recorded in the system and linked to client requests.
- 3.3. Clients can track the status of their service requests (pending, in-progress, completed).

### **4. User Interface (UI)/User Experience (UX):**

- 4.1. Design user-friendly dashboards for each role (Admin, Client, Engineer).
- 4.2. Provide a responsive layout using Bootstrap/Tailwind for cross-device compatibility.
- 4.3. Integrate interactive previews for AI results and 3D models to enhance user experience.

### **5. Communication & Feedback:**

- 5.1. Clients can leave reviews and feedback on engineers after receiving services.
- 5.2. Provide an in-app messaging or inquiry system between clients and engineers.
- 5.3. Admins can view and respond to user issues, ensuring smooth communication.

### **6. Security & Authentication:**

- 6.1. Implement secure authentication with password hashing and role-based access control (RBAC).
- 6.2. Add CSRF protection for all forms and enforce HTTPS.
- 6.3. Validate inputs to prevent SQL injection, XSS, and file upload vulnerabilities.

### **7. Future Scope (Scalability):**

- 7.1. Introduce payment gateway integration (Stripe, PayPal) for paid services.
- 7.2. Expand AI features: smart furniture recommendations, wall color simulations, and photo enhancement.
- 7.3. Build a marketplace for architects/engineers to offer their design packages directly on the platform.

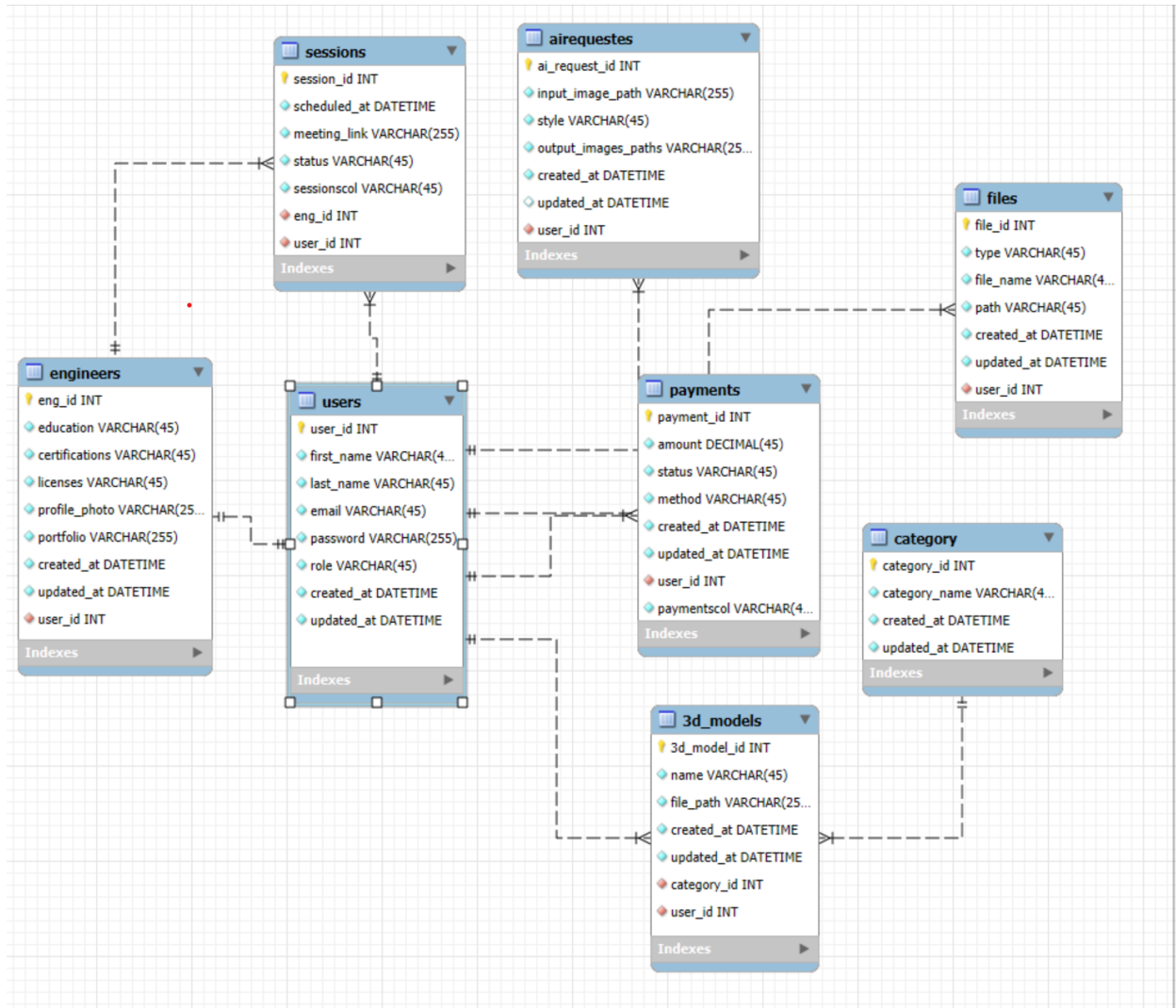
### **8- Team members:**

- 8.1. Omyma Alkurd      <https://github.com/omymakurd>
- 8.2. Hamza Sammour      <https://github.com/hamzasammour>
- 8.3. Dalia Saymeh      <https://github.com/Dalia852>
- 8.4. Mahmood Jomaa      <https://github.com/MahmoudMousa1994>

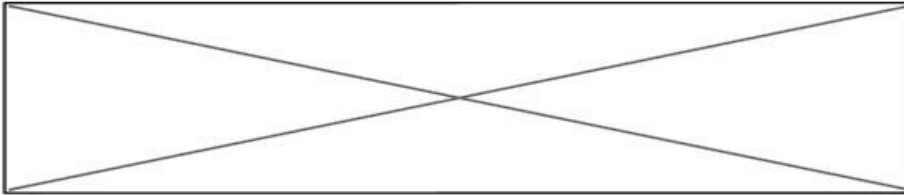
[Git Hub Org](#)

[Trello board](#)

## Er Diagram:



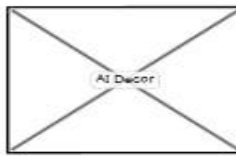
## WireFram:



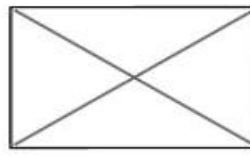
## Three Revolutionary Ways to Design Your Space



Engineering Consultation



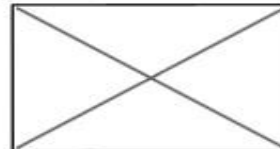
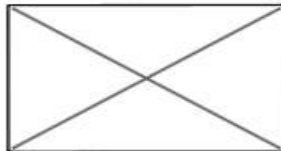
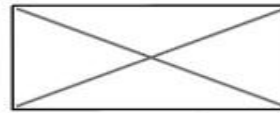
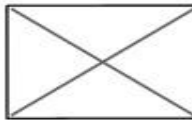
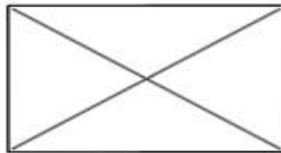
AI Decor



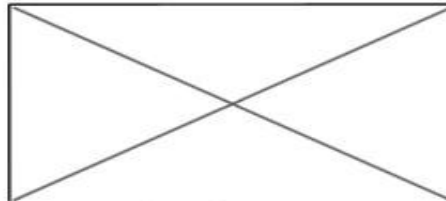
## From Vision to Reality in 4 Steps

- 1-Register & Upload
- 2-Register & Upload
- 3-Interactive Experience
- 4-Receive Results

## Transformations That Inspire



MAKAN is a revolutionary platform that allows you to design your space in a way that is both functional and aesthetically pleasing. Our AI-powered design engine can generate hundreds of design options for you to choose from, based on your preferences and budget. This is a game-changer for anyone looking to renovate or build a new space.



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[Get Started](#)

# Transform Space With Precision

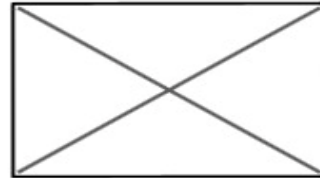
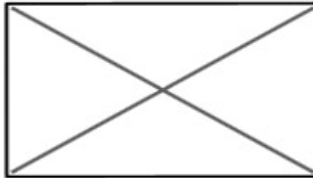
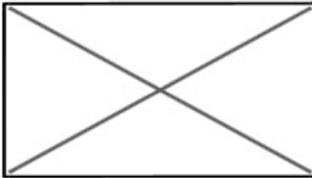
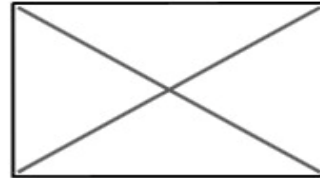
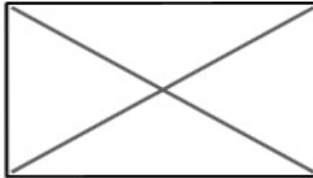
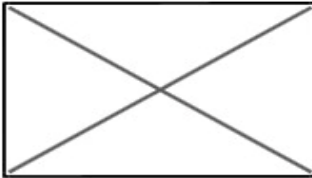
MAKAN is a leading provider of 3D visualization services for the architecture and interior design industries. Our team of experts uses cutting-edge technology to create realistic and immersive 3D renderings of your projects, helping you visualize your vision and make informed decisions. Whether you need a simple 3D model or a full-scale virtual tour, we have the expertise and resources to deliver exceptional results. Contact us today to learn more about our services and how we can help you transform your space with precision.

Start 3D Simulation

View Demo

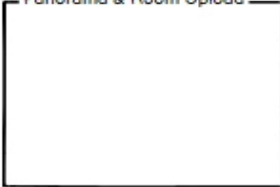
## 3D Viewer Preview — Precise, Interactive, Professional

MAKAN's 3D Viewer Preview is a powerful tool that allows you to interact with and explore your 3D models in a professional and precise manner. The viewer is designed to be user-friendly and intuitive, making it easy for anyone to navigate and understand the data presented. It supports a wide range of file formats and provides a high-quality, interactive experience that is perfect for presentations and collaborative work. Try it out today and see how it can enhance your 3D visualization workflow.

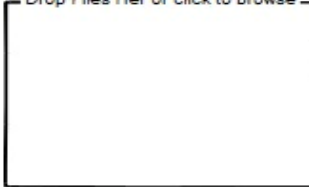


Launch 3D Viewer

Panorama & Room Upload



Drop Files Her or click to browse



## Furniture Library — Curated 3D Assets

MAKAN's Furniture Library is a curated collection of high-quality 3D assets, including furniture, lighting, and decor. These assets are designed to be realistic and detailed, providing a wide range of options for your 3D visualization projects. Whether you need a modern sofa, a classic lamp, or a unique piece of art, our library has everything you need. Browse our collection today and discover the perfect assets for your project.



Browse Full Library

Request Custom Model

## Engineer Dashboard

Active Request

Alerts

Fast Actions

Today's Meetings

Workspace Insights

Recent Uploaded

Client Requests

Button Button Button Button

### design delivery & files

[Upload Final Design](#)

Recent Deliveries

AI Decor Preview

## Quick Start

BOOK CONSULTATION

- Project Folders

## Deliverables

### Engineers

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## - AI Decor Preview

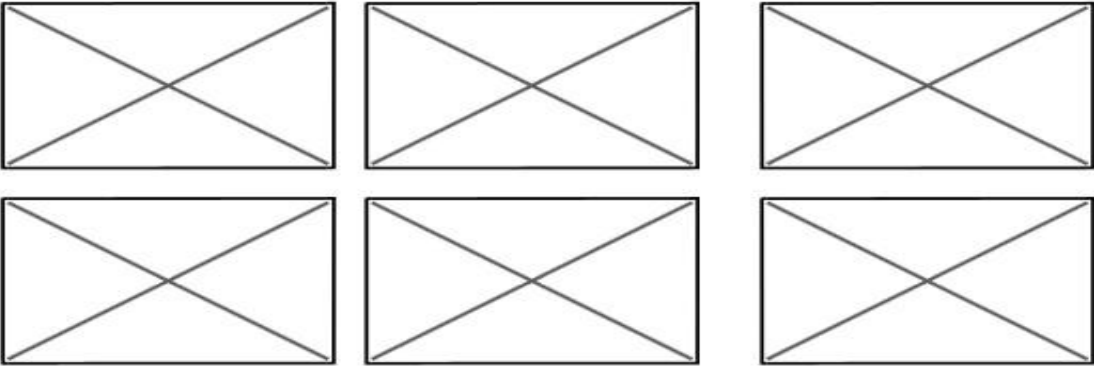
AI Decor Studio

MAKAN AI Decor Studio is a cutting-edge platform that leverages artificial intelligence to transform your interior design ideas into stunning, personalized visualizations. Whether you're looking to refresh your living room, redesign your kitchen, or create a completely new look for your home, our AI-powered tools can help you bring your vision to life. Explore our services and discover how we can make your dream home a reality.

Start Your Design

Preview Gallery — Refined Results, Ready to Decide

MAKAN AI Decor Studio offers a wide range of design services to suit your needs and budget. Our team of experts is dedicated to providing you with the highest quality results, ensuring that your home is not only beautiful but also functional and comfortable. From initial consultation to final design, we'll be with you every step of the way. Contact us today to get started on your AI-powered design journey.



Style Selection & Upload

MAKAN AI Decor Studio provides a comprehensive suite of tools and resources to help you create the perfect design for your space. Our platform is designed to be user-friendly and intuitive, allowing you to easily navigate through various design options and make informed decisions. We're committed to making the design process as seamless as possible for our users.

style Guidance

Upload Requirements

Advanced Options

Generate AI Variations

preview Images

Download PDFs

Share with Teame      Request Revisions      Approve Final Design



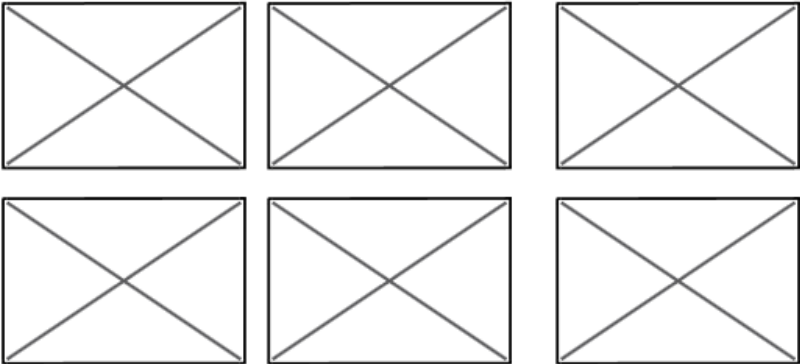
AI Decor Studio

MAKAN AI Decor Studio is a cutting-edge platform designed to revolutionize interior design. It leverages advanced artificial intelligence algorithms to generate personalized and innovative design concepts for your space. Whether you're looking for a complete room makeover or just some inspiration, our AI-powered tools can help you visualize your dream home before you start any renovations. Our intuitive interface allows you to easily input your preferences, such as color schemes, furniture styles, and room layouts, and the AI will instantly provide you with a variety of design options to choose from. This not only saves you time and money but also ensures that the final design perfectly matches your unique taste and requirements. Join the thousands of satisfied customers who have transformed their living spaces with MAKAN AI Decor Studio.

Start Your Design

Preview Gallery — Refined Results, Ready to Decide

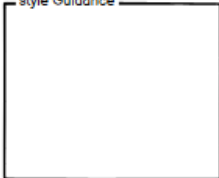
MAKAN AI Decor Studio provides a comprehensive preview gallery of AI-generated design concepts. This gallery allows users to explore a wide range of styles, from modern minimalist to classic elegance, ensuring there's a design that fits their personal aesthetic. Each preview includes detailed images of the proposed furniture, color palettes, and overall room layout. Users can interact with these previews, zooming in on specific details and comparing different options side-by-side. This feature is crucial for making informed decisions and refining the design to meet their exact needs. The gallery also includes filters to narrow down results based on room type, budget, and preferred design themes, making the selection process more efficient and tailored to the user's preferences.



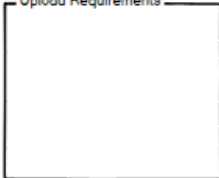
Style Selection & Upload

MAKAN AI Decor Studio offers a robust style selection and upload interface. This section is designed to help users define their design preferences more precisely. It includes three main components: Style Guidance, Upload Requirements, and Advanced Options. The Style Guidance section provides detailed instructions and examples for selecting colors, patterns, and furniture styles. The Upload Requirements section allows users to specify technical details such as image resolution, file format, and naming conventions for any custom assets they wish to upload. The Advanced Options section offers additional settings for fine-tuning the AI's output, such as adjusting the level of detail, the number of variations generated, and the overall aesthetic direction. This comprehensive setup ensures that the AI-generated designs are highly personalized and aligned with the user's specific vision and requirements.

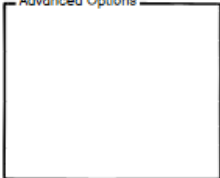
style Guidance



Upload Requirements



Advanced Options

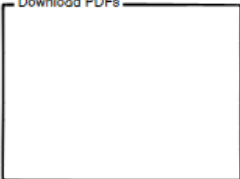


Generate AI Variations

preview Images



Download PDFs



Share with Team

Request Revisions

Approve Final Design

## Register

☐ Engineer

☐ client

first\_name

last\_name

email

password

confirm Password

Register

Engineer name

← → ↻

o of the engin

name:

email:

phone number

Engineer association member: Y

years of experience:

My past projects:

My past projects: .....

project 1:

/ /

description

[a link](#)

project 2:

/ /

description

[a link](#)

+

add

Contact me

this contact me btn takes redirects to a page where clients can manage calls and meetings

Note:

the my past projects section should include accordions so that the engineer can fill out all details and no other white spaces are left out..for each experience, the engineer in able to fill out the info for the project by clicking on a (plus sign) and filling the related fields.