PROBLEM ?

The traditional process of working with 3D artists is often time-consuming and imprecise, leading to multiple revisions and misunderstandings between the client and an artist.

DESIGN DIVE

Our Target Audience

Interior Designers and Decorators

- Visualizing different furniture arrangements.
- Experimenting with various color schemes and materials.
- Collaborating with clients through interactive 3D models.
- Enhancing presentations with customizable 3D room setups.

Game Developers and Animators

- Quickly prototyping characters, objects, and environments.
- Collaborating on 3D designs with team members.
- Iterating on concepts through text, making adjustments easy.

Architects and Urban Planners

- Visualizing architectural concepts in 3D space.
- Experimenting with building layouts and facades.

Educators and Students in Design Schools

- Providing a tool for students to learn 3D modelling concepts.
- Enhancing teaching methods through interactive 3D representations.
- Facilitating collaborative projects between students.

PROPOSED SOLUTION

01

Real-Time Visualization:
- See different objects in different scenes
- Will help in decision making process.

02

Customization & Flexibility:
- Flexibility in recreating objects.
- Defining specific properties of objects.

03

Accessibility:
- Simplified interface to complex 3D modeling
- More accessible to non-professional users.

04

Future Expansions:
- Simplified interface to complex 3D modeling
- More accessible to non-professional users.

TECHNOLOGIES USED

- We are using **JavaScript** and **ReactJS** for the **front-end**

- Using OpenAI **Shap-E** model for prompt to 3D models

- Using **Blender** for 3D rendering

- We are using **Python** for the **backend**

- Using **docker** for containerization and **deployment**.

WORKFLOW

- Start from a Scene or just generate 3D models
- Select your prompt (or multiple).
- The prompt will be sent to Shap-E.
- The mesh of the model is downloaded and passed onto blender for processing.
- Blender processes the meshed object and applies materials, lighting and positioning of the model onto the scene
- The scene is rendered and outputted to the user as jpg but he can also download .obj or .stp files. (mp4 in future versions)

REVENUE STREAMS

- **Basic:**
  - Limited amount of 3D models per month
  - No custom scenes

Pro Version:
- Allowing custom scene generation
- More credits

Hybrid and Yearly Basis:
- Unlimited model creation
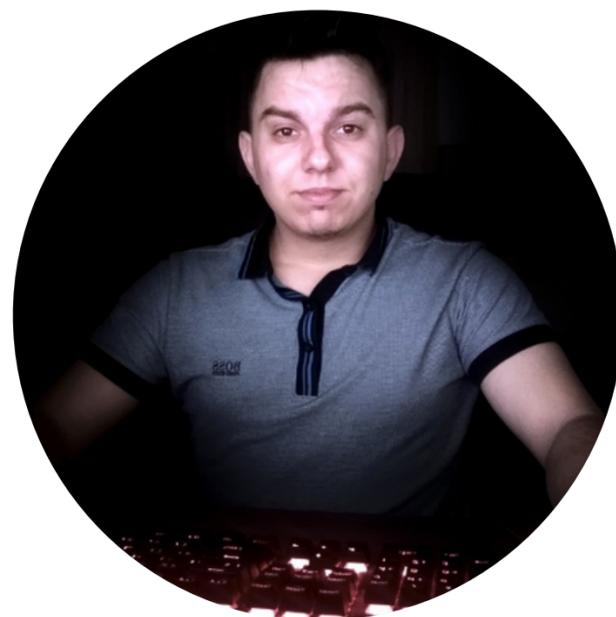- Unlimited scenes
- Exclusive access to Upcoming Features.

Designdive   Generate   SIGN IN

Create Stunning Scenes
With Customized 3D Models

Transform your living spaces with our AI-powered 3D Model Customizer.
Choose themes, add effects, and make your imagination come alive.

Choose Scene

Select from available scenes like the 'Living Room',
'Bedroom' or 'Office Space' and add any item you can
imagine!.

Add Effects

Apply cool effects, materials, and shadows to create
stunning visuals.

Download & Share

Download the images of your ideal scene and share them
across social media platforms.

3D Object Generation

Create unique 3D objects based on simple text
descriptions and bring your vision to life.

Blender Rendering

Utilize advanced rendering technology to give your
designs a realistic and professional appearance.

User Customization

Adjust, modify, and personalize your 3D models to create
the perfect representation of your idea.

START CUSTOMIZING