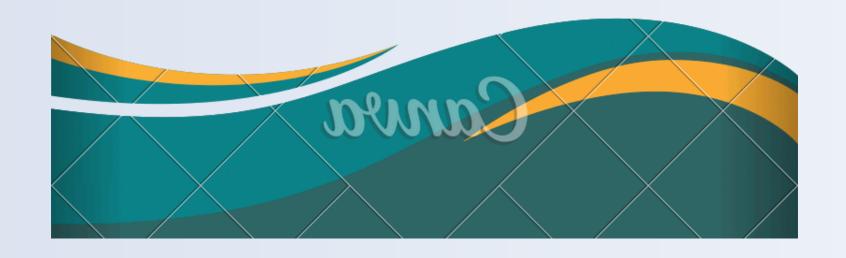
SpacePlannerAPP

Generate Room Plans with Al





Meet Our Best Team







Azhan Khan





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Problem statement

Designing a room layout can be time-consuming and requires a high level of expertise.

Professionals like architects and interior designers often need quick and customizable solutions for generating room plans





Solution

Introducing The SpacePlanner

 The Space Planner App offers a simple, Al-powered tool that allows users to generate detailed room plans based on specific prompts.,via an intuitive interface.

 This solution caters to both professionals and homeowners who want to visualize and customize room layouts effortlessly.

SpacePlanner Benfits

1) Customization

Users can tailor room plans to their exact needs, whether for professional projects or personal use.

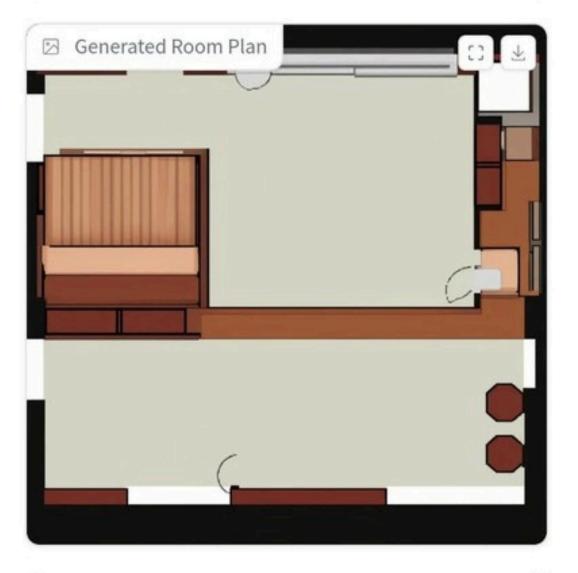
2) Real time results

The AI model generates room plans almost instantly, providing ,immediate feedback and allowing for quick iterations.



Room Plan Generator

12x15 feet room with furniture layout having king size bed



Generate Room Plan

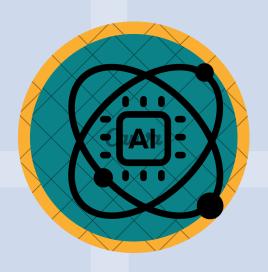


SpacePlanner Unique Approach



User Inputs

Users can input specific prompts detailing the room dimensions, layout, and style.



AI-Generated Plans:

The app processes these prompts using a pre-trained Al model to generate a detailed room plan.



User Friendly Interface

The app is designed with an intuitive interface using Gradio, making it accessible for all user levels.

Powered by Stable Diffusion Model

Python

For the backend logic and API integration.

PIL (Python Imaging Library)

Used for handling and displaying generated images.



Handles text, image, and PDF inputs seamlessly.

Gradio

For the user interface, allowing for seamless interaction.

Canva



Target Audiance



Home Owners

Home Owners who are finding difficulty finding good designers around them, but wants a professional design for their House



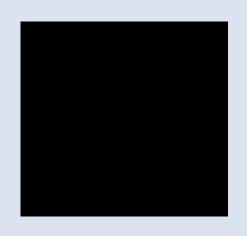
Design Professionals

Arch and Interior Designors who wants a starting point for their project, which they can later specialize as per specifc business needs



Construction
Companies/Contactors

Those construction companies or contractors who wants to save cost for designing layout of the space



Future Work

Full Floor Plans

Expand the app to generate entire floor plans, not just individual rooms

Advanced Design Features

Incorporate more complex design options like furniture placement, wall textures, and color schemes.

3D Visualization

Develop a feature to view the room plans in 3D for a more immersive experience.

In this example we demonstrate SpacePlanner Assitance in Code:

Thank You

For Your Attention

