# Virtual Room Designer Screen

A difficult challenge that involves both functional and non-functional needs is developing a virtual interior design app that allows users to design their dream living places. These specifications are necessary for guaranteeing the usability, functionality, and general user satisfaction of the app. Let's dive into the needs for this virtual interior design software, both functional and non-functional on virtual room designer screen:

**Functional Requirements:**

1. **Decoration and Furnishing**
   * A broad collection of virtual furnishings and decorations should be available for users to use in their designs in the app.
   * Each of these item's colour, texture, and size should be customizable by users.
2. **Realistic Visualization**
   * The Screen app should render the 3D room designs in a realistic, high-quality manner.
   * This includes precise materials, shadows, and lighting.
3. **Quick Preview**
   * Users should be able to view their ideas in 3D right away as they make modifications, allowing for immediate feedback on design decisions.
4. **Collaboration and Sharing**
   * Users should be able to collaborate with others on the same design using collaboration tools.
   * they should be able to share their designs with others for feedback.

**Non-Functional Requirements:**

1. **Performance**
   * Even on low-end smartphones, the application should respond quickly and offer smooth interactions.
   * 3D visualization should be fast and efficient to prevent lag.
2. **Security**
   * design preferences and personal information (user data), should be securely stored and protected from unauthorized access.