

**PROJECT PROPOSAL**

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**Project name: FurnitureShoppingAR (augmented reality) app**

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### Project Background and Description

Do you want to buy furniture sitting at home? So with the help of AR technology we decide to introduce an E-Commerce Furniture AR app that helps you to see the size of furniture virtually and then decide that you want to buy that furniture or not and you can easily buy through our furniture AR app.

Furniture AR app lets you virtually place products in your space select other product and add them to your room to make new look and feel of your place.

Tap through the app’s catalogue includes furniture and decoration elements from the companies, the customer can sort products by price, style, color or brand. The latest updates make it possible not only place the objects. The full collection of sofas, armchairs, coffee tables, and storage units, then holds up your phone and use the camera to place the digital furniture anywhere in a room.

Through the camera, and touch items on screen to add them to their shopping cart.

Makes it easier to make buying decisions in your own place, to get inspired and try many different products, styles and colors in real-life settings with a swipe of your finger.

### PROJECT FUNCTIONAL REQURIMENTS

#### Users profile:

There are three roles of users:

* + Those who sale the interior decoration like habit, interwood. (as a sales person).
  + Those who want to buy the interior decoration easily. (as a user)
  + Those who want to visit the stores. (as a guest)

#### Users order history:

There is the order summary for the users and the admin to watch the background of the client.

#### Payment gateway integration:

Customers will be able to make payments for the purchased products on the app by using integrated payment gateway given by the Client. Admin will be able to manage this section from the backend.

#### Search products and choose favorites:

The option of search products is for the users and customers those don’t want to view all item so they easily go on search bar and write product name and try the product through AR.

#### Sort product by price, style, color or brand:

The customers easily sort the product by their range and the style they want and the brand they like most.

#### Color changing option:

The color changing option is like that you easily change the color of the furniture and interior decoration so people see one model in different color.

#### Shopping Cart:

The shopping cart will allow the customers to manage their shopping in an easy and convenient way.

#### Check out:

Check out will allow the customers to carry the following features:

* + Login or register
  + Order summary
  + Enter billing and payment details
  + Complete order

#### CMS Integration:

We create the CMS for our app for easily upload the models and descriptions and other things like sale update and many more.

#### 360-degree view:

The 360 view of all items on the store.

#### 3D View of all the items:

The 3D view of all items in the store like sofas, chairs, tables and many more things that are used in interior decoration.

#### True scale 3D model of company:

The scale of 3D model is same as company given to their shops.

#### Social media sharing:

There are many peoples who as addicted to upload their things on social media and share with friends and family members to get feedback of that thing so we also give the option of social media sharing of our users to take screenshot and upload directly.

### PROJECT NON-FUNCTIONAL REQURIMENTS

* + The user interface of the application should be uncomplicated i.e. the user should not have problem in understanding the application.
  + The application should encrypt user password for reliability.
  + Accurate bill should be generated on order placement.
  + Application should be compatible with different android phone versions after nougat 7.0.
  + Payment details should be encrypted for protecting data integrity.
  + Registration should be compulsory for order placement.
  + Guest login cannot place order.
  + Data should not be redundant, that is duplicate IDs should not be created.
  + Users shall not be able to upload any type of product.
  + Admin should have the right of uploading models.
  + The store person can only view the history of product and its description.
  + 3D model should be generated within 60 seconds.
  + The size of the 3D model should be same as defined.
  + Our app can adapt a new changes like new shops can be include in our APP, new user can easily use our APP, new offers can be update on our APP.

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### PROJECT SCOPE

The Scope of this project is to develop an Augmented reality furniture shopping app through this AR e-commerce furniture store where any kind of interior product can be bought from the APP for the comfort of home through the internet and with the new technology Augmented reality that helps use to find the perfect size of furniture you need for your rooms you can see 3D models of those product virtually.

We building a big online shop platform for all furniture stores there are no online stores that give the furniture view in 3D view through augmented reality and there are no online app that allow the shop keeper to create there store online.

A Furniture AR online store is a virtual store on the internet where customers can easily browse the catalog and select interior products of interest. The select items may be collected in a shopping cart. At checkout time, the item in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address and payments information such as cash on delivery and integrate cards. An email notification is sent to the customer as soon as order is placed.

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