

1. What is DecorVista?

It's a **web application** for **home interior design** where:

- **Homeowners** can:
 - Get design ideas from an **inspiration gallery**.
 - Browse a **product catalog** (furniture, decor, etc.).
 - Book **consultations** with professional designers.
 - Save their favorite designs.
 - Give reviews for designers and products.
 - **Interior Designers** can:
 - Create a **profile** and upload their **portfolio**.
 - Manage **consultation bookings**.
 - Receive and respond to **reviews**.
 - **Admins** can:
 - Manage users, products, gallery content, blogs.
 - View reports on activity and performance.
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2. Main Features (Easy List)

For Users:

1. **Sign Up / Login** (with email, username, password).
2. **Inspiration Gallery** (design images categorized by room, style, color).
3. **Dashboard** (saved designs, activities, notifications).
4. **Product Catalog** (search, filter, view details, add to cart, no payment).
5. **Consultation Booking** (view designer profiles, schedule time, review).
6. **Reviews** (for designers and products).
7. **Blog** (articles, DIY tips).
8. **My Account** (profile, saved items, order history).

For Designers:

1. **Registration & Profile Setup.**
2. **Portfolio Upload.**
3. **Manage Consultation Slots.**
4. **Client Interaction** (view booking requests, cancel if needed).
5. **Respond to Reviews.**

For Admin:

1. Manage users & content.
 2. Edit galleries & blogs.
 3. Generate reports.
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3. Requirements to Build It

Hardware:

- PC/Laptop with:
 - Intel i5 or i7 processor (or better)
 - 8 GB RAM+
 - 500 GB storage
 - Internet connection

Software & Tools:

- **Frontend** (user interface):
 - HTML5, CSS3, JavaScript
 - Bootstrap (optional)
 - Angular / ReactJS (recommended)
 - jQuery
 - Figma (for design prototype)
- **Backend** (logic, database connection):

- Any one of these:
 - Java with Java EE & Apache Tomcat/Glassfish
 - OR C# with ASP.NET MVC
 - OR PHP with Laravel
 - OR Python with Django/Flask
 - MySQL or SQL Server (database)
 - **IDE (coding software):**
 - Visual Studio Code (for frontend)
 - Visual Studio, NetBeans, Eclipse, or PyCharm (depending on backend choice)
 - **Local Hosting (for testing):**
 - XAMPP (for PHP)
 - WAMP / MAMP (optional)
 - Or use backend server directly
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4. How to Make It (Step-by-Step)

Step 1: Plan the Design

- Use **Figma** to design UI (Home page, Login, Gallery, Catalog, etc.).
- Make a **sitemap** showing all pages.

Step 2: Build the Frontend

- Create HTML pages with CSS & JS.
- Make them **responsive** (mobile & desktop friendly).
- Add **dummy content** for testing.

Step 3: Create the Backend

- Choose your language (PHP, Java, Python, or C#).
- Connect to **MySQL database**.
- Create tables for:

- Users, Designers, Products, Reviews, Consultations, Categories.

Step 4: Connect Frontend & Backend

- Make registration & login forms **functional**.
- Implement search, filter, and save design features.
- Add booking system logic.

Step 5: Add Admin Panel

- Page to manage users, content, and products.
- Simple dashboard with stats.

Step 6: Test

- Check all features work (register, login, search, book consultation, etc.).
- Fix any bugs.

Step 7: Host

- Use free hosting (e.g., InfinityFree) or paid hosting (e.g., Hostinger).
- Upload both backend & database.
- Share live URL.

5. Deliverables (What You Must Submit)

- **Working Web App** (hosted or in zip file with ReadMe.doc).
- **Video Demo** showing all features.
- **Documentation** (problem definition, flowcharts, database design, test data, credentials, installation instructions).
- **SQL Script** (for database setup).

1. Simple Overview

DecorVista is an **online interior design platform** where:

- **Homeowners** can get inspiration, shop decor items, book consultations with designers, and save designs.
- **Designers** can showcase their portfolio, get bookings, and manage clients.

- **Admins** can control content, users, and generate reports.

Think of it as a mix of:

- **Pinterest** (for design inspiration)
 - **IKEA catalog** (for products)
 - **Calendly** (for booking consultations)
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2. Detailed Features Breakdown

Here's every feature from your SRS explained simply.

For Homeowners

1. User Registration & Login

- Create account with name, email, contact number, username, password.
- Client-side validation (check email format, password length, etc.).
- Login using username & password.

2. Inspiration Gallery

- High-quality interior design images.
- Categories: Room Type, Theme/Style, Color Scheme.
- Subcategories: Living Rooms, Bedrooms, Kitchens, Bathrooms, Offices, Outdoor Spaces.
- Save favorite images to profile.

3. User Dashboard

- **Design Management:** View, edit, delete saved designs.
- **Activity Overview:** Track what you viewed or booked.
- **Notifications:** Alerts about new designs, products, consultations.

4. Product Catalog

- Product listings: Furniture, Lighting, Decor, Rugs, Wall Art, Curtains, etc.
- Filters: Brand, Price, Style, Category.

- Detailed product page (dimensions, material, price).
- Add to Cart (but **no payment** system — only redirect to partner site).

5. Professional Consultation

- View designer profiles & portfolios.
- See available slots, book consultation.
- Leave review for consultation.

6. Reviews

- Write reviews for products and designers.
- View other users' reviews.

7. Blog

- Read articles on trends, tips, DIY projects.
- Admin updates content.

8. My Account

- Profile settings.
- Saved items & designs.
- My consultations.
- Order history.

For Designers

1. Registration & Profile Setup

- Professional email signup.
- Upload personal info, experience, specialization.
- Upload past project images (portfolio).
- Set availability for consultations.

2. Managing Consultations

- Add/cancel time slots.

- Get notified when booked.

3. Client Interaction

- View booking details.
- Respond to project briefs.

4. Receiving Reviews

- Get ratings from clients.
- Reply to reviews.

For Admin

1. Manage Users (edit, delete accounts).
2. Manage Inspiration Gallery (add/edit/delete images).
3. Manage Blog posts.
4. Generate Reports (activity, site performance).

3. Website Requirements

This includes everything you need for **development** and **deployment**.

A) Technical Requirements

Frontend (User Interface)

- **Languages:** HTML5, CSS3, JavaScript
- **Frameworks** (choose one for interactivity):
 - **ReactJS** 18+
 - or Angular 9+
- **UI Tools:** Bootstrap (for responsive design), jQuery
- **Design Tool:** Figma (for mockups and UI design)
- **Extra:** XML (for data exchange if needed)

Backend (Server Logic)

Choose **ONE** backend stack:

- **Java** (Java EE 7+ with Apache Tomcat/Glassfish)
- **C#** (ASP.NET MVC Core with Visual Studio)
- **PHP** (Laravel Framework with Apache server)
- **Python** (Django or Flask with PyCharm)

Database

- **MySQL 8.0+** (recommended)
- or SQL Server 2019+

Hosting

- **Local development:** XAMPP (for PHP), Tomcat (Java), or Flask/Django server.
 - **Live hosting:**
 - Shared hosting (Hostinger, Bluehost) or
 - Cloud hosting (AWS, Heroku, Render)
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B) Hardware Requirements

- Intel Core i5/i7 processor or better
 - 8 GB RAM minimum
 - 500 GB+ storage
 - Color SVGA monitor
 - Mouse & keyboard
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C) Non-Functional Requirements

- **Responsive** (works on mobile & desktop)
- **Secure** (password encryption, no public access to restricted pages)
- **Fast Loading** (optimized images, minimal JS blocking)
- **Compatible** (Chrome, Firefox, Safari, Edge)

- **Available** 24/7 with minimal downtime
 - **User-Friendly** (simple navigation, readable fonts)
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4. How to Make It – Detailed Steps

Here's a **practical build roadmap**.

Step 1 – Plan

- Create **wireframes** for each page in Figma.
- Make a **sitemap** (Home, Login, Dashboard, Gallery, Products, Consultation, Blog, My Account).

Step 2 – Set Up Development Environment

- Install:
 - VS Code or chosen IDE
 - Node.js (for React/Angular)
 - Database server (MySQL)
 - XAMPP or backend server
- Create project folder structure.

Step 3 – Build Frontend

- Create reusable components (Header, Footer, Navbar, Product Card, etc.).
- Implement:
 - Home page
 - Login/Register forms
 - Inspiration Gallery
 - Product Catalog
 - Consultation Booking
 - Blog
 - My Account

Step 4 – Build Backend

- Create database tables:
 - Users
 - UserDetails
 - Designers
 - Products
 - Consultations
 - Reviews
 - Categories
- Implement:
 - Registration/Login APIs
 - Product & Gallery APIs
 - Booking API
 - Review system API

Step 5 – Integrate Frontend & Backend

- Connect pages to APIs.
- Ensure login system works (with sessions/tokens).
- Display database content dynamically.

Step 6 – Add Admin Panel

- Secure login for admin.
- Manage users, products, images, blogs.

Step 7 – Test

- Test every feature with sample data.
- Fix bugs.
- Check on mobile & desktop.

Step 8 – Deploy

- Export database (SQL file).
- Upload to hosting server.
- Test live URL.

5. Project Submission Checklist

- ☒ Working web app (hosted or zipped).
- ☒ Video demo of all features.
- ☒ Documentation (problem definition, diagrams, DB design, credentials).
- ☒ SQL file with all table definitions.
- ☒ ReadMe.doc with installation instructions & assumptions.

1. Database Tables (From SRS)

You can adjust names/columns, but here's the suggested list:

#	Table Name	Purpose
1	Users	Stores basic user login info (username, email, password, role).
2	UserDetails	Extra profile details (name, contact, address).
3	InteriorDesigners	Designers' professional details (experience, specialization, portfolio link).
4	Products	Stores decor/furniture product details (name, price, description, image).
5	Categories	Stores product categories (Furniture, Lighting, etc.).
6	ProductCategories	Many-to-many link between products & categories.
7	Consultations	Stores booking details (user, designer, date/time, status, notes).
8	Reviews	Stores reviews for products & designers (rating, comment).

#	Table Name	Purpose
9	Blogs	Stores blog posts (title, content, image, author).
10	Saved Designs	Stores user's saved gallery images/designs.
11	Notifications	Alerts for users (new designs, bookings, etc.).
12	Orders (<i>optional for saved purchases</i>)	If you want to track user's cart history (even without payments).

✅ **Minimum:** 8–9 tables if you combine some.

✅ **Recommended:** 11–12 tables for flexibility.

2. Website Pages (From SRS)

Here's the suggested **page list** for your web app:

Public Pages (No Login Required)

1. **Home** (overview + highlights of designs/products)
2. **About Us** (company details)
3. **Contact Us** (form + location)
4. **Login / Register** (sign up & login for users/designers)
5. **Blog Listing** (view articles)
6. **Single Blog Post** (full article view)

User Pages (After Login)

7. **User Dashboard** (activity overview, saved designs, notifications)
8. **Inspiration Gallery** (view categories, filter, save designs)
9. **Single Design View** (details of a design with save option)
10. **Product Catalog** (search, filter, add to cart)
11. **Single Product View** (details, reviews, buy link)
12. **Consultation Booking** (select designer, pick time slot)

13. **My Consultations** (view, cancel, review past bookings)
 14. **My Account** (profile, settings, saved items, order history)
 15. **Write a Review** (form for product/designer)
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Designer Pages (After Login as Designer)

16. **Designer Dashboard** (overview of bookings, portfolio, reviews)
 17. **Manage Portfolio** (upload/edit project images)
 18. **Manage Consultation Slots** (set/cancel available dates/times)
 19. **View Bookings** (see client requests)
 20. **Reviews** (view/respond to client feedback)
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Admin Pages

21. **Admin Dashboard**
 22. **Manage Users** (edit, delete, view profiles)
 23. **Manage Products** (add/edit/delete)
 24. **Manage Inspiration Gallery** (upload/edit/delete images)
 25. **Manage Blogs** (add/edit/delete posts)
 26. **Reports & Analytics** (view site performance & user activity)
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- ✓ **Minimum:** ~15–18 pages (if you merge some functions).
- ✓ **Recommended:** 22–26 pages (full modular structure).

1. Users Table (for login credentials & basic role info)

Columns (6)

1. `user_id` (*PK, INT*) – unique ID
2. `username` (*VARCHAR*) – login name
3. `email` (*VARCHAR*) – unique email

4. password (*VARCHAR, hashed*)
 5. role (*ENUM: 'user', 'designer', 'admin'*)
 6. created_at (*DATETIME*) – account creation date
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2. UserDetails Table (extra profile info)

Columns (7)

1. userdetails_id (*PK*)
 2. user_id (*FK to Users*)
 3. firstname (*VARCHAR*)
 4. lastname (*VARCHAR*)
 5. contactnumber (*VARCHAR*)
 6. address (*TEXT*)
 7. profile_image (*VARCHAR, optional*)
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3. InteriorDesigners Table (designer-specific info)

Columns (8)

1. designer_id (*PK*)
 2. user_id (*FK to Users*)
 3. yearsofexperience (*INT*)
 4. specialization (*VARCHAR*)
 5. portfolio_url (*VARCHAR*)
 6. bio (*TEXT*)
 7. availability_status (*ENUM: 'available', 'unavailable'*)
 8. rating (*FLOAT, avg from reviews*)
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4. Products Table (product details)

Columns (8)

1. product_id (*PK*)
 2. productname (*VARCHAR*)
 3. category_id (*FK to Categories*)
 4. brand (*VARCHAR*)
 5. price (*DECIMAL*)
 6. description (*TEXT*)
 7. image (*VARCHAR*)
 8. created_at (*DATETIME*)
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5. Categories Table

Columns (3)

1. category_id (*PK*)
 2. categoryname (*VARCHAR*)
 3. description (*TEXT*)
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6. ProductCategories Table (many-to-many link)

Columns (4)

1. productcategory_id (*PK*)
 2. product_id (*FK*)
 3. category_id (*FK*)
 4. description (*TEXT*)
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7. Consultations Table

Columns (8)

1. consultation_id (*PK*)

2. user_id (FK)
 3. designer_id (FK)
 4. scheduled_datetime (DATETIME)
 5. status (ENUM: 'pending','confirmed','cancelled','completed')
 6. notes (TEXT)
 7. created_at (DATETIME)
 8. updated_at (DATETIME)
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8. Reviews Table

Columns (7)

1. review_id (PK)
 2. user_id (FK)
 3. product_id (FK, nullable)
 4. designer_id (FK, nullable)
 5. rating (INT 1-5)
 6. comment (TEXT)
 7. created_at (DATETIME)
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9. Blogs Table

Columns (6)

1. blog_id (PK)
2. title (VARCHAR)
3. content (TEXT)
4. image (VARCHAR)
5. author_id (FK to Users)
6. created_at (DATETIME)

10. SavedDesigns Table

Columns (5)

1. saved_id (*PK*)
 2. user_id (*FK*)
 3. image_url (*VARCHAR*)
 4. category (*VARCHAR*)
 5. saved_at (*DATETIME*)
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11. Notifications Table

Columns (6)

1. notification_id (*PK*)
 2. user_id (*FK*)
 3. message (*TEXT*)
 4. type (*ENUM: 'booking','product','design','system'*)
 5. status (*ENUM: 'read','unread'*)
 6. created_at (*DATETIME*)
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12. Orders Table (*optional*)

Columns (8)

1. order_id (*PK*)
2. user_id (*FK*)
3. product_id (*FK*)
4. quantity (*INT*)
5. price (*DECIMAL*)
6. status (*ENUM: 'saved','removed'*)

7. created_at (DATETIME)
8. updated_at (DATETIME)

Total Columns Estimate

- **Minimum Structure:** ~60–70 columns (if you keep it basic).
- **With Optional Features:** ~85–95 columns (more flexibility for future upgrades).

1. User Dashboard Pages (Homeowner)

Main Dashboard Page → Overview of all user activities.

Then, linked sub-pages:

1. **Dashboard Home** (activity overview, notifications, quick links)
2. **My Designs** (saved designs list)
3. **My Consultations** (upcoming & past consultations)
4. **Consultation Booking** (choose designer & time slot)
5. **Product Catalog** (browse products, filters)
6. **Saved Products** (wishlist/cart)
7. **My Reviews** (view & manage reviews submitted)
8. **My Account Settings** (profile edit, change password)
9. **Notifications** (all alerts in one page)

 **Total User Pages: 9**

2. Designer Dashboard Pages

Main Dashboard Page → Quick stats on bookings, portfolio, reviews.

Then, linked sub-pages:

1. **Dashboard Home** (summary of consultations, ratings)
2. **My Portfolio** (upload, edit, delete projects)
3. **Manage Availability** (set consultation slots)

4. **Consultations List** (view, accept, cancel bookings)
5. **Client Reviews** (view/respond to feedback)
6. **Profile Settings** (edit professional info)
7. **Messages / Notifications** (alerts from clients/admin)

✅ **Total Designer Pages: 7**

3. Admin Dashboard Pages

Main Dashboard Page → Site stats, user count, content overview.

Then, linked sub-pages:

1. **Dashboard Home** (overview of site activity)
2. **Manage Users** (view/edit/delete users & designers)
3. **Manage Products** (add/edit/delete items)
4. **Manage Categories** (add/edit/delete categories)
5. **Manage Gallery** (upload/edit/delete inspiration images)
6. **Manage Blogs** (add/edit/delete articles)
7. **Manage Consultations** (view bookings, reassign designers if needed)
8. **Manage Reviews** (moderate inappropriate feedback)
9. **Reports & Analytics** (user activity, product views, bookings)
10. **Admin Settings** (account settings, security)

✅ **Total Admin Pages: 10**

Grand Total Dashboard Pages

- **User Dashboard** → 9 pages
- **Designer Dashboard** → 7 pages
- **Admin Dashboard** → 10 pages

Overall Dashboard Pages: 26 pages (excluding public pages like Home, About, Blog, Contact).

