Description:

• Purpose

The main purpose of this document is :-
      1) Explain how a database created by us can help the whole community of interior designing which include interior designers, suppliers, and clients.
      2)All the functionalities of this database and how to use them.

• Intended Audience and Reading Suggestions

      • Free lancers: They can select their clients according to their comfort and discuss the working hours with their clients
      • Companies: Companies looking to expand their suppliers or looking for better clientele to expand their business
      • Homeowner: This database provides a budget estimation so there can plan their budget and it also gives them transparency so that they are not spending more than the market rate.
      • New interior designers: They are our main clientele as the majority of new designers have no connections at all.
      • Suppliers: They will have an idea of what kind of supplies is more in demand which can help in their business and This will give them contacts of people living near to the homeowners and interior designer who they think can be a help to them.

1. **Database Administrators:**
   • "SQL Performance Explained" by Markus Winand

   • "Database Design for Mere Mortals: A Hands-On Guide to Relational Database Design" by Michael J. Hernandez

2. **Software Developers:**
   • "Learning SQL" by Alan Beaulieu

   • "Clean Architecture: A Craftsman's Guide to Software Structure and Design" by Robert C. Martin

Interior design blends art and science to improve the inside of a building, creating a more appealing and healthier space for its occupants. An interior designer is responsible for planning, researching, overseeing, and implementing these improvements. This profession is diverse, encompassing tasks like idea generation, organizing space, site visits, understanding client needs, coordinating with project stakeholders, managing construction, and bringing the design to life.

In today's modern type of living,interior design stands out and shows how expression to our ev tastes, technological advances, and the balance of form and function have increased and also evolved. At the

crux of this there are three primary stakeholders: the clients, the designers, and the suppliers. Each plays a distinct role, carving out an ideal position within the vast subject of the interior design ecosystem. In this discourse, we delve into the workings and position of these entities, understanding their interaction, challenges, and the subsequent requirements from a database designer's perspective. We'll also shine light upon the technical requirements that underpin this interaction, with a great emphasis on problems and their solution,and the interaction between the 3 entities, before laying out the modules that would be one of the most important parts of this database system.

Entities and Their Roles

Clients:
Every client has a different type of vision and idea regarding their space. In the realm of interior design, the main vision comes out from the clients. They harbor their dreams and ideas of their spaces that resemble their own type of personalities,profession, aspirations, and comfort. With desires ranging from a cozy living corner to a more focused and efficient workspace, they rely heavily on platforms like Pinterest and Instagram to gather inspiration. However, their journey is not so easy as they face various challenges for example financial constraints(budgetary), space limitations, or past experiences with designers, like budget overgoing than anticipated or not so good material quality than expected, often shape their expectations and apprehensions.

Designers:
Translating clients' visions into a working and aesthetically designed and even satisfying work is the main and also difficult work of interior designers. However, their resources are vast, and they also have many methods. Their main function not only lies in designing but also other work like finding the right suppliers who resonate with their vision for perfection, assembling a team that mirrors their dedication. The designers face numerous challenges. Moreover, project management, encapsulating the essence of clear deadlines and open communication with clients, is essential to a good completion of their operations.

Suppliers:
They can be thought as unsung heroes as suppliers have the power to breathe life into the designs with their range of products. Their challenges range from positioning their products in a market brimming with alternatives to maintaining the delicate balance of quality and cost.

Entity Interactions

Here's a detailed exposition of how each of these entities would interact with such a database and subsequently with one another:

For interior designers, the database serves as a virtual treasure . They can quickly search through and contact an extensive list of suppliers, evaluating them based on reviews, past projects, and quality of materials. This allows them to discover and collaborate with suppliers who align best with their design and also their costing ideas. Designers can also showcase their portfolios on the database, allowing prospective clients to view their work, understand their style, and read reviews from previous clients. This transparency can significantly boost a designer's credibility. Additionally, the platform can offer project management tools, assisting designers in setting clear project timelines, milestones, and enabling open communication channels with clients.

Clients stand to benefit immensely from this database. Their first interaction would likely involve searching for designers whose style resonates with their vision and also a person who works according to their budget. By viewing portfolios, reading reviews, and comparing costs, clients can make informed decisions as otherwise it is very difficult to even know a single thing about interior designing. Once they've shortlisted or selected a designer, the database's collaboration tools come into play. Clients can share design inspirations, feedback on proposed designs, and even jointly explore product links and mock-ups with their chosen designer. Another significant advantage for clients is the transparent pricing module. By accessing a breakdown of costs, clients can understand where their money is being spent and make decisions that align with their budget. This transparency minimizes potential disputes over costs and hidden charges.

The suppliers have a dual role within the database. Firstly, they can list their products, offering descriptions, quality certifications, and pricing. This allows designers and clients to browse through options, making informed choices based on quality and cost. Suppliers can also offer exclusive discounts or showcase new products, enhancing their visibility and appeal. Furthermore, by collaborating directly with designers through the database, suppliers who want less hassle and don't want direct conversation with clients can ensure timely deliveries and even receive feedback, helping them continually improve their offerings.This also helps make more aware of the market flow and what type of product is more in trend.

As for the interactions among the entities: The designer can shortlist suppliers based on client preferences, share these choices with the client, and together they can finalize vendors. The client's feedback on design mock-ups can be shared in real-time with the designer, ensuring that designs evolve in line with the client's vision. Meanwhile, the designer can place orders directly with suppliers through the database, ensuring a seamless flow of materials as per the project's requirements.

In essence, the database emerges as an integrative platform, weaving together the needs, preferences, and offerings of the interior designer, client, and supplier. It fosters a collaborative environment, emphasizing transparency, efficient communication, and informed decision-making at every step of the interior design process.

Challenges and Solutions from a Database Designer's Perspective

Designing a database that caters to the intricate dynamics of the interior design industry presents numerous challenges for a database designer. One of the primary obstacles is the diverse range of user needs. The database must accommodate the varied preferences of designers, the specific requirements of clients, and the multifaceted offerings of suppliers. Ensuring that the database is user-friendly for all these entities while being robust enough to handle vast amounts of data is a huge task. Additionally, safeguarding sensitive data, be it the clients' personal details, the financial transactions

of suppliers, or the intellectual property of designers, is paramount. A related challenge is ensuring that the platform can handle high traffic volumes without crashing, especially during peak usage times.

To address these challenges, the database designer must prioritize modularity which refers to the compartmentalization and interrelation of the parts of a software package in design. This allows for separate, dedicated sections for each entity, ensuring a personalized user experience. Leveraging advanced encryption techniques and multi-factor authentication ensures the security of sensitive data. Integrating scalable cloud solutions can provide the elasticity required to manage varying traffic loads. For the issue of diverse needs, implementing a feedback loop where users can relay their experiences and suggest improvements can be invaluable. This not only enhances user satisfaction but also aids in the iterative refinement of the database. Regularly updating the system, running security audits, and ensuring data redundancy further ensures the database remains both functional and secure.

Another notable challenge for database designers is the scattered nature of the interior design industry. With practitioners spread far and wide, often operating independently or in smaller firms, gathering participants for input during the database design phase can be daunting. The decentralized structure of the industry might mean a lack of standardized practices or universal needs, making the design process even more intricate.

To tackle these hurdles, database designers should champion modularity in their approach. This would facilitate distinct sections tailored for each user type, ensuring a more personalized and efficient experience.

Modules for the Database System

The development of an interior design database catering to clients, suppliers, and interior designers necessitates a comprehensive yet user-friendly module system. Let's delve into the essential modules tailored for each of these entities and their ecosystem.

For the interior designer, a Portfolio Management Module is crucial. It should allow designers to upload, edit, and showcase their work, from sketches to rendered designs and photographs of finished projects. Coupled with this, a Client Management Module would help them track client requirements, feedback, and ongoing project statuses. To facilitate communication, an Appointment Scheduler and Communication Module can be integrated, allowing designers to set up meetings, share real-time updates, and collaborate with clients seamlessly.

Clients, on the other hand, would benefit immensely from a Design Inspiration Module. This module would let them browse various design styles, themes, and trends, helping them articulate their preferences. An Interior Designer Search and Review Module Would be invaluable, enabling clients to find and review designers based on expertise, past projects, and client feedback. For more effective communication, a Quotation and Billing Module can be introduced, where clients can receive, review, and approve quotations and track their payments.

The suppliers' primary module would be a Product Listing and Inventory Management Module. It would let them list products, update their specifications, and manage inventory in real-time. A Order

Management and Tracking Module would help suppliers manage client or designer orders efficiently, ensuring timely deliveries. To foster trust, a Reviews and Ratings Module should be implemented, allowing both designers and clients to rate and review products and services.

Lastly, the broader ecosystem would be enriched with an Integration and API Module to ensure that the database can interact with other software tools, be it for payment processing, virtual reality previews, or any other third-party services that become relevant in the future. Another vital module would be the Analytics and Reporting Module, providing insights to all stakeholders about user behavior, popular design trends, sales data, and more, which can be pivotal in making informed decisions. By incorporating these modules, the database would not only streamline operations for each entity but would also foster a more collaborative and efficient interior design ecosystem.

Conclusion

In summary, the creation of a comprehensive database tailored for interior designers, clients, and suppliers promises to revolutionize the interior design landscape. By integrating tailored modules for each entity, the platform fosters collaboration, transparency, and efficiency. Addressing both functional and non-functional requirements, this initiative ensures a seamless experience, bridging the gaps between design aspirations and tangible outcomes. As the realms of design and technology merge, such advancements underscore the potential for innovation in reshaping industry dynamics and enhancing user experiences.

All Extracted Nouns & Verbs from Problem Description

Nouns	Verbs
The interior design database management system	is designed
software	optimize
process	-
interior designing	-
product	has
range	-
features	help
functions	help
communication	-
financial tracking	-
data	-
analysis	-
purpose	is
document	-
database	created
us	created by
community	help
interior designing	-
interior designers	include
suppliers	include
clients	include
functionalities	-
database	use
them	use
Free lancers	can select
clients	according to
comfort	-
working hours	discuss
clients	with
Companies	looking
suppliers	expand
clientele	looking for
business	expand
Homeowner	-
database	provides
budget estimation	-
they (Homeowner)	can plan
budget	-
them (Homeowner)	gives

transparency	-
they (Homeowner)	are spending
market rate	more than
New interior designers	are
clientele	-
majority	-
designers	have
connections	-
Suppliers	will have
idea	-
kind	-
supplies	-
demand	is
business	help in
them (Suppliers)	give
contacts	-
people	-
homeowners	-
interior designer	-
they (Suppliers)	think
help	can be
"SQL Performance Explained"	-
Markus Winand	-
"Database Design for Mere Mortals: A Hands-On Guide to Relational Database Design"	-
Michael J. Hernandez	-
"Learning SQL"	-
Alan Beaulieu	-
"Clean Architecture: A Craftsman's Guide to Software Structure and Design"	-
Robert C. Martin	-
Interior design	blends
art	-
science	-
inside	improve
building	-
space	-
occupants	-
interior designer	is responsible
planning	-
researching	-
overseeing	-
implementing	-
improvements	-

profession	is
tasks	encompassing
idea generation	-
space	organizing
site visits	-
client needs	understanding
project stakeholders	coordinating with
construction	managing
design	bringing to
living	-
interior design	stands out
expression	shows
tastes	-
technological advances	have increased
balance	have increased
form	-
function	-
crux	-
stakeholders	are
clients	-
designers	-
suppliers	-
role	plays
position	carving out
subject	-
interior design ecosystem	-
discourse	delve into
workings	-
position	-
entities	understanding
interaction	-
challenges	-
requirements	-
database designer's perspective	-
technical requirements	underpin
interaction	-
problems	-
solution	-
interaction	-
entities	-
modules	laying out
parts	would be
database system	of

Clients	-
client	has
type	-
vision	-
idea	regarding
realm	-
interior design	comes out
vision	-
clients	harbor
dreams	-
ideas	-
spaces	resemble
type	-
personalities	-
profession	-
aspirations	-
comfort	-
desires	ranging
living corner	-
workspace	-
they (clients)	rely
platforms	-
Pinterest	-
Instagram	gather
journey	is
challenges	face
financial constraints	-
space limitations	-
experiences	-
designers	-
budget	overgoing
material quality	expected
expectations	shape
apprehensions	-
Designers	-
visions	Translating
work	is
interior designers	-
resources	are
methods	have
function	lies
designing	-
work	like

suppliers	finding
vision	resonate
team	assembling
dedication	mirrors
designers	face
challenges	-
project management	encapsulating
essence	-
deadlines	clear
communication	-
clients	is
completion	essential
operations	-
Suppliers	can be thought
heroes	-
suppliers	have
power	-
designs	breathe into
range	-
products	-
challenges	range
positioning	from
products	-
market	brimming
balance	maintaining
quality	-
cost	-
exposition	-
entities	would interact
database	-
one another	-
interior designers	-
database	serves
treasure	-
They (designers)	can search
list	-
suppliers	contact
suppliers	-
reviews	evaluating
past projects	-
quality	-
materials	-
them (suppliers)	discover

suppliers	collaborate
design	with
costing ideas	align
Designers	can showcase
portfolios	-
database	-
prospective clients	view
work	-
style	understand
reviews	read
previous clients	from
transparency	boost
designer's credibility	can
platform	offer
project management tools	-
designers	assisting
project timelines	setting
milestones	-
communication channels	enabling
clients	-
Clients	stand
database	from
first interaction	would involve
designers	searching
style	resonates
person	works
portfolios	viewing
reviews	reading
costs	comparing
clients	make
decisions	can
thing	knows
interior designing	about
designer	selected
database's collaboration tools	come
Clients	can share
design inspirations	-
feedback	-
designs	proposed
product links	explore
mock-ups	-
chosen designer	with
advantage	is

clients	-
transparent pricing module	is
breakdown	By accessing
costs	understand
money	is
decisions	make
budget	align
transparency	minimizes
potential disputes	-
costs	over
hidden charges	and
suppliers	have
role	within
database	-
products	list
descriptions	offering
quality certifications	-
pricing	-
designers	allows
clients	browse
options	making
choices	based on
quality	-
cost	-
Suppliers	can offer
discounts	-
products	showcase
visibility	enhancing
appeal	-
designers	by collaborating
database	through
suppliers	can ensure
deliveries	-
feedback	receive
offerings	improve
market flow	make aware
product	is
interactions	-
entities	-
designer	can shortlist
suppliers	based on
client preferences	-
choices	share

client	with
vendors	finalize
feedback	can be shared
design mock-ups	-
designer	with
designs	evolve
client's vision	in line with
designer	can place
orders	directly
suppliers	through
database	-
flow	ensuring
materials	-
project's requirements	-
database	emerges
platform	-
needs	weaving
preferences	-
offerings	-
interior designer	-
client	-
supplier	-
environment	fosters
transparency	emphasizing
communication	-
decision-making	-
step	at every
interior design process	of the
Challenges and Solutions	-
Database Designer's Perspective	from a
database	Designing
dynamics	caters to
interior design industry	of the
challenges	presents
database designer	for a
obstacles	is
range	is
user needs	of
database	must accommodate
preferences	-
requirements	-
offerings	-
database	Ensuring

entities	is
data	handle
task	is
data	safeguarding
details	be it
transactions	-
intellectual property	-
challenge	is
platform	handle
traffic volumes	without crashing
usage times	during
challenges	To address
database designer	must prioritize
modularity	refers to
compartmentalization	-
interrelation	-
parts	-
software package	in
design	-
sections	allows for
entity	for each
user experience	ensuring
encryption techniques	Leveraging
authentication	ensures
data	-
cloud solutions	Integrating
elasticity	provide
traffic loads	manage
issue	For the
needs	of
feedback loop	implementing
users	where can relay
experiences	-
improvements	suggest
satisfaction	enhances
refinement	aids in
database	of the
system	updating
security audits	running
data redundancy	ensuring
database	ensures
challenge	is
database designers	-

nature	scattered
interior design industry	-
practitioners	spread
firms	operating
participants	gathering
database design phase	during
structure	decentralized
industry	might mean
practices	lack of standardized
needs	universal
design process	making
hurdles	tackle
database designers	should champion
approach	in their
sections	facilitate
user type	for each
experience	ensuring
Modules	-
Database System	for the
development	-
interior design database	of an
clients	catering to
suppliers	-
interior designers	-
module system	necessitates
modules	delve into
entities	for each of these
ecosystem	and their
interior designer	for the
Portfolio Management Module	is
designers	should allow
work	to upload, edit, and showcase
designs	rendered
photographs	of
projects	finished
Client Management Module	Coupled with
client requirements	help them track
feedback	-
project statuses	ongoing
communication	facilitate
Appointment Scheduler	can be integrated
Communication Module	and
designers	allowing

meetings	to set up
updates	share
clients	collaborate with
Clients	would benefit
Design Inspiration Module	would let
design styles, themes, trends	browse
preferences	helping them articulate
Interior Designer Search and Review Module	Would be
clients	enabling
designers	to find and review
expertise, past projects, client feedback	based on
communication	for more effective
Quotation and Billing Module	can be introduced
clients	can receive, review, approve, track
suppliers' primary module	would be
Product Listing and Inventory Management Module	would let
products, specifications	list, update
inventory	manage
Order Management and Tracking Module	would help
suppliers	manage
deliveries	ensuring
trust	to foster
Reviews and Ratings Module	should be implemented
designers and clients	allowing
products and services	to rate and review
ecosystem	would be enriched
Integration and API Module	to ensure
database	can interact
software tools	with
payment processing, virtual reality previews	be it for
third-party services	or
module	Another vital
Analytics and Reporting Module	would be
insights	providing
stakeholders	to all
user behavior, design trends, sales data	about
decisions	making
modules	By incorporating
database	would
operations	streamline
entity	for each
interior design ecosystem	foster

creation	In summary,
database	promises
interior designers, clients, suppliers	tailored for
interior design landscape	to revolutionize
modules	By integrating
each entity	tailored for
platform	fosters
collaboration, transparency, efficiency	
requirements	Addressing
initiative	ensures
experience	ensures
gaps	bridging
design aspirations and tangible outcomes	
realms	As merge
design and technology	of
advancements	underscore
potential	
innovation	for
industry dynamics	in reshaping
user experiences	and enhancing

Candidate Entity Set

Noun	Reason
database management system	Relevant to the intended system as it's the core entity.
software	Relevant to the intended system as it represents a product.
interior designing	Relevant to the intended system as it's a core domain.
product	Relevant to the intended system as it's a core entity.
companies	Relevant to the intended system as potential users.
homeowners	Relevant to the intended system as potential users.
freelancers	Relevant to the intended system as potential users.
suppliers	Relevant to the intended system as they play a role.
clients	Relevant to the intended system as they are core users.
visions	Relevant to the intended system as part of the

	design process.
work	Relevant to the intended system as part of designers' tasks.
positioning	Relevant to the intended system as it relates to suppliers.
products	Relevant to the intended system as they are offered.
quality	Relevant to the intended system as it relates to products.
cost	Relevant to the intended system as it affects budgets.
interactions	Relevant to the intended system as it describes system use.
list	Relevant to the intended system as it's a potential feature.
reviews	Relevant to the intended system as user feedback.
projects	Relevant to the intended system as part of designers' work.
tools	Relevant to the intended system as they assist designers.
channels	Relevant to the intended system as part of communication.
benefits	Relevant to the intended system as it relates to clients.
interaction	Relevant to the intended system as it describes user actions.
browsing	Relevant to the intended system as part of user behavior.
quotations	Relevant to the intended system as part of client actions.
payments	Relevant to the intended system as part of financial tracking.
discounts	Relevant to the intended system as part of supplier offerings.
deliveries	Relevant to the intended system as part of supplier actions.
choices	Relevant to the intended system as it relates to selections.
vendors	Relevant to the intended system as part of supplier actions.
objectives	Relevant to the intended system as part of project goals.

experiences	Relevant to the intended system as it relates to users.
modules	Function unit of the system
appointment	Relevant to the users

Candidate Attributes Set

Noun	Likely Entity Set to be Assigned
products	Product
quality	Product
cost	Project or Budget
reviews	User or Product
projects	Project
quotations	Project or Financial Tracking
payments	Financial Tracking or Transaction
discounts	Product or Promotion
deliveries	Delivery or Project
objectives	Project
experiences	User or Feedback
portfolio	Project
Project status	Project

Rejected Nouns

Nouns	Reason to be rejected
process	Vague
range	Irrelevant
features	Will be written as modules
functions	Will be written as modules
communication	Vague
financial tracking	Attribute
data	Vague
analysis	Vague
purpose	Vague
document	Irrelevant
database	Attribute
us	created by
community	Irrelevant
interior designing	Repeated
interior designers	Repeated
clients	Repeated
functionalities	Repeated
database	repeated
them	Vague
clients	repeated
comfort	repeated
clients	repeated
suppliers	repeated
business	Vague
database	repeated
budget estimation	Repeated
they (Homeowner)	Irrelevant
budget	We used another for it i.e cost
them (Homeowner)	Irrelevant and repeated
transparency	irrelevant
they (Homeowner)	Irrelevant and repeated
market rate	Irrelevant
New interior designers	repeated
clientele	repeated
majority	Irrelevant
designers	repeated
connections	Vague
Suppliers	repeated
idea	Vague
kind	VAgue
supplies	repeated
demand	Vague

business	Repeated and
them (Suppliers)	Irrelevant and repeated
contacts	Irrelevant
people	Vague
homeowners	repeated
interior designer	repeated
they (Suppliers)	Irrelevant and repeated
"SQL Performance Explained"	Irrelevant
Markus Winand	Irrelevant
"Database Design for Mere Mortals: A Hands-On Guide to Relational Database Design"	Irrelevant
Michael J. Hernandez	Irrelevant
"Learning SQL"	Irrelevant
Alan Beaulieu	Irrelevant
"Clean Architecture: A Craftsman's Guide to Software Structure and Design"	Irrelevant
Robert C. Martin	Irrelevant
Interior design	Repeated
art	Vague
science	Vague
inside	Vague
building	Vague
space	Attribute
occupants	
interior designer	Repeated
planning	Vague
researching	Vague
overseeing	Irrelevant
implementing	Irrelevant
improvements	Irrelevant
profession	Vague
tasks	Vague
idea generation	Vague
space	Repeated
site visits	Irrelevant
client needs	Attribute
project stakeholders	Irrelevant
construction	Irrelevant
design	Repeated
living	Irrelevant
interior design	Repeated
expression	Vague
tastes	Vague
technological advances	Irrelevant

balance	Vague
form	Vague
function	Repeated
crux	Vague
stakeholders	Vague
clients	Repeated
designers	Repeated
suppliers	Repeated
role	plays
subject	Vague
interior design ecosystem	Irrelevant
discourse	Irrelevant
workings	Attribue
entities	Vague
interaction	Vague
challenges	Irrelevant
requirements	Vague
database designer's perspective	Vague
technical requirements	Irrelevant
interaction	Irrelevant
problems	Irrelevant
solution	Irrelevant
interaction	Repeated
entities	Repeated
parts	Vague
database system	Repeated
Clients	Repeated
client	Repeated
type	Vague
vision	Vague
idea	Vague
realm	Irrelevant
interior design	Repeated
vision	Repeated
clients	Repeated
dreams	Repeated
ideas	Repeated
spaces	Repeated
type	Repeated
personalities	Vague
profession	Vague
aspirations	Vague
comfort	Irrelevant

desires	Vague
living corner	Vague
workspace	Vague
they (clients)	Irrelevant
platforms	Vague
Pinterest	Irrelevant
Instagram	Irrelevant
journey	Irrelevant
challenges	Repeated
financial constraints	Irrelevant
space limitations	Repeated
experiences	Attribute
designers	Repeated
budget	Repeated
material quality	Irrelevant
expectations	Irrelevant
apprehensions	Irrelevant
Designers	Repeated
visions	Repeated
work	Repeated
interior designers	Repeated
resources	Vague
methods	Irrelevant
function	Repeated
designing	Repeated
work	Repeated
suppliers	Repeated
vision	Repeated
team	Repeated
dedication	Vague
designers	Repeated
challenges	Repeated
project management	Vague
essence	Vague
deadlines	Vague
communication	Repeated
clients	Repeated
completion	Repeated
operations	Vague
Suppliers	Repeated
heroes	Irrelevant
suppliers	Repeated
power	Irrelevant

designs	Repeated
range	Repeated
challenges	Repeated
positioning	Repeated
products	Repeated
market	Repeated
balance	Repeated
exposition	Repeated
entities	Repeated
database	Repeated
one another	Vague
interior designers	Repeated
database	Repeated
treasure	Irrelevant
They (designers)	Irrelevant
list	Vague
suppliers	Repeated
suppliers	Repeated
past projects	Irrelevant
quality	Attribute
materials	Attribute
them (suppliers)	Irrelevant
suppliers	Repeated
design	Repeated
costing ideas	Repeated
Designers	Repeated
portfolios	Attribute
database	Repeated
prospective clients	Repeated
work	Irrelevant
style	Vague
previous clients	Irrelevant
transparency	Vague
designer's credibility	Vague
platform	Vague
designers	Repeated
project timelines	Repeated
milestones	Irrelevant
communication channels	Repeated
clients	Repeated
Clients	Repeated
database	Repeated
first interaction	Irrelevant

designers	Repeated
style	Repeated
person	Vague
portfolios	Repeated
reviews	Repeated
costs	Repeated
clients	Repeated
decisions	Vague
thing	Vague
interior designing	Repeated
designer	Repeated
Clients	Repeated
design inspirations	Vague
feedback	Has been taken as Review
designs	Repeated
product links	Vague
mock-ups	Vague
chosen designer	Repeated
advantage	Vague
clients	Repeated
breakdown	Vague
costs	Repeated
money	Vague
decisions	Vague
budget	Takena as cost
transparency	Repeated
potential disputes	Irrelevant
costs	Repeated
hidden charges	Irrelevant
suppliers	Repeated
role	Vague
database	Repeated
products	Repeated
descriptions	Repeated
quality certifications	Vague
pricing	Same as cost
designers	Repeated
clients	Repeated
options	Vague
choices	based on
quality	Repeated
cost	Repeated
Suppliers	Repeated

discounts	Attribute
products	Repeated
visibility	Vague
appeal	Vague
designers	Repeated
database	Repeated
suppliers	Repeated
deliveries	Attributes
feedback	Repeated
offerings	Repeated
market flow	Repeated
product	Repeated
interactions	Repeated
entities	Repeated
designer	Repeated
suppliers	Repeated
client preferences	Irrelevant
choices	Repeated
client	Repeated
vendors	Taken as suppliers
feedback	Repeated
design mock-ups	Repeated
designer	Repeated
designs	Repeated
client's vision	Irrelevant
designer	Repeated
suppliers	Repeated
database	Repeated
flow	Vague
materials	Repeated
project's requirements	Repeated
database	Repeated
platform	Repeated
needs	Vague
preferences	Irrelevant
offerings	Irrelevant
interior designer	Repeated
client	Repeated
supplier	Repeated
environment	Vague
transparency	Repeated
communication	Repeated
decision-making	Vague

step	Vague
interior design process	Repeated
Challenges and Solutions	Repeated
Database Designer's Perspective	Repeated
database	Repeated
dynamics	Repeated
interior design industry	Irrelevant
challenges	Repeated
database designer	Repeated
obstacles	Repeated
range	Repeated
user needs	Irrelevant
database	Repeated
preferences	Vague
requirements	Repeated
offerings	Repeated
database	Repeated
entities	Repeated
data	Repeated
task	Vague
data	Repeated
details	Vague
transactions	Attribute
intellectual property	Repeated
challenge	Repeated
platform	Repeated
traffic volumes	Irrelevant
usage times	Irrelevant
challenges	Repeated
database designer	Repeated
compartmentalization	Irrelevant
interrelation	Irrelevant
parts	Vague
software package	Repeated
design	Repeated
sections	Vague
entity	Repeated
user experience	Vague
encryption techniques	Irrelevant
authentication	Irrelevant
data	Repeated
cloud solutions	Repeated
elasticity	Irrelevant

traffic loads	Irrelevant
issue	Irrelevant
needs	Repeated
feedback loop	Repeated
users	Vague
improvements	Irrelevant
satisfaction	Irrelevant
refinement	Irrelevant
database	Repeated
system	Repeated
security audits	Repeated
data redundancy	Vague
database	Repeated
challenge	Repeated
database designers	Repeated
nature	Vague
interior design industry	Repeated
practitioners	Irrelevant
firms	Irrelevant
participants	Vague
database design phase	Vague
structure	Vague
industry	Repeated
practices	Repeated
needs	Vague
design process	Repeated
hurdles	Vague
database designers	Repeated
approach	Vague
sections	Vague
user type	Repeated
experience	Repeated
Modules	Repeated
Database System	Repeated
development	Repeated
interior design database	Repeated
clients	Repeated
suppliers	Repeated
interior designers	Repeated
module system	Repeated
modules	Repeated
entities	Repeated
ecosystem	Vague

interior designer	Repeated
designers	Repeated
work	Repeated
designs	Repeated
photographs	Irrelevant
projects	Repeated
client requirements	Repeated
feedback	Repeated
project statuses	Repeated
communication	Repeated
Appointment Scheduler	(Check)
designers	Repeated
meetings	Irrelevant
updates	Vague
clients	Repeated
Clients	Repeated
design styles, themes, trends	Irrelevant
preferences	Irrelevant
Interior Designer Search and Review Module	Repeated
clients	Repeated
designers	Repeated
expertise, past projects, client feedback	Repeated
communication	Repeated
clients	Repeated
Product Listing and Inventory Management Module	Irrelevant
products, specifications	Repeated
inventory	Another word for product
Order Management and Tracking Module	Attribute
suppliers	Repeated
deliveries	Repeated
Reviews and Ratings Module	Attribut
designers and clients	Repeated
products and services	Repeated
ecosystem	Repeated
Integration and API Module	Repeated
database	Repeated
software tools	Repeated
payment processing, virtual reality previews	Repeated
third-party services	Irrelevant
module	Repeated
insights	Vague
stakeholders	Repeated

user behavior, design trends, sales data	Repeated
decisions	Repeated
modules	Repeated
database	Repeated
operations	Repeated
entity	Repeated
interior design ecosystem	Repeated
creation	Attribute
database	Repeated
interior designers, clients, suppliers	Repeated
interior design landscape	Repeated
modules	Repeated
each entity	Vague
platform	Repeated
collaboration, transparency, efficiency	Vague
requirements	Repeated
initiative	Vague
experience	Repeated
gaps	Vague
design aspirations and tangible outcomes	Irrelevant
realms	Repeated
design and technology	Repeated
advancements	Vague
potential	Vague
innovation	Vague
industry dynamics	Irrelevant

Final Entity Set

Noun	List of Attributes

Designer	DesignerID, Name, Contact,Experience,review
Client	ClientID, Name, Contact, Cost, Feedback, etc.
Supplier	SupplierID, Name, Contact, Product_Type, Rating, Reviews, etc.
Project	ProjectID, DesignerID, ClientID, Start_Date, End_Date, Status, etc.
Product	ProductID, SupplierID, Description, Cost, Quality_Certification, etc.
Order	OrderID, DesignerID (or ClientID if they order directly), ProductID, Quantity, Delivery_Date, etc.
Review	ReviewID, AuthorID (can be either DesignerID, ClientID, or SupplierID), Rating, Comment, etc.
Appointment	AppointmentID, DesignerID, ClientID, Meeting_Date, Agenda, etc.
Additional Modules	Module_ID, Name, Functionality, Version
Financial Tracking	Tracking_ID (Primary Key) Payment_Amount Payment_Date Payment_Method (e.g., Credit Card, PayPal, Bank Transfer, etc.) Discount_Amount Discount_Code (if applicable) Total_Amount (which can be computed as Payment_Amount minus Discount_Amount) Status (e.g., Pending, Completed, Failed)

ER Model