# **Table Design**

### User:

Column Name	Data Type	Constraints
user_id	Serial (PK)	NOT NULL
username	Text	NOT NULL
email	Text	Unique
password	Text	NOT NULL
user_type	Text	NOT NULL

Column Name	Data Type	Constraints
creator_id	Serial (PK)	NOT NULL
user_id	Integer (FK)	References User(user_id)
portfolio_verification_status	Boolean	NOT NULL
approval_status	Boolean	NOT NULL
profile_picture	Text	NOT NULL
portfolio_pdf_path	Text	NOT NULL

# Wallpaper Category Table:

Column Name	Data Type	Constraints
category_id	Serial (PK)	NOT NULL
category_name	Text	NOT NULL

# Wallpaper Tag Table:

Column Name	Data Type	Constraints
tag_id	Serial (PK)	NOT NULL
tag_name	Text	NOT NULL

### **Wallpaper Collection Table:**

Column Name	Data Type	Constraints
wallpaper_id	Serial (PK)	NOT NULL
creator_id	Integer (FK)	References ContentCreator(creator_id)
category_id	Integer (FK)	References WallpaperCategory(category_id)
tag_id	Integer(FK)	References WallpaperTag(tag_id)
title	Text	NOT NULL
description	Text	NOT NULL

upload_date	Date	NOT NULL
file_path	Text	NOT NULL
premium_status	Boolean	NOT NULL
price	Decimal	NOT NULL

### **User interaction Table:**

Column Name	Data Type	Constraints
interaction_id	Serial (PK)	NOT NULL
user_id	Integer (FK)	References User(user_id)
wallpaper_id	Integer (FK)	References Wallpaper(wallpaper_id)
interaction_type	Text	NOT NULL

#### **Premium User Purchase:**

Column Name	Data Type	Constraints
purchase_id	Serial (PK)	NOT NULL
user_id	Integer (FK)	References User(user_id)
wallpaper_id	Integer (FK)	References Wallpaper(wallpaper_id)

purchase_date	Date	NOT NULL
purchase_amount	Decimal	NOT NULL

# **Image customization Option:**

Column Name	Data Type	Constraints
option_id	Serial (PK)	NOT NULL
option_name	Text	NOT NULL

# **Image Customization Value:**

Column Name	Data Type	Constraints
value_id	Serial (PK)	NOT NULL
option_id	Integer (FK)	References ImageCustomizationOption(option_id)
value_name	Text	NOT NULL

### **Wallpaper Customization:**

Column Name	Data Type	Constraints
customization_id	Serial (PK)	NOT NULL
wallpaper_id	Integer (FK)	References Wallpaper(wallpaper_id)

user_id	Integer (FK)	References User(user_id)
selected_options	JSON	NOT NULL

# **Payment Gateway Transaction:**

Column Name	Data Type	Constraints
transaction_id	Serial (PK)	NOT NULL
user_id	Integer (FK)	References User(user_id)
wallpaper_id	Integer (FK)	References Wallpaper(wallpaper_id)
transaction_date	Date	NOT NULL
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transaction_amount	Decimal	NOT NULL

### **Similar Image Pair:**

Column Name	Data Type	Constraints
pair_id	Serial (PK)	NOT NULL
original_wallpaper_id	Integer (FK)	References Wallpaper(wallpaper_id)
similar_wallpaper_id	Integer (FK)	References Wallpaper(wallpaper_id)