

Table Design

1. **tbl_User**

Primary Key: **user_id**

Foreign Key: **subscription_plan_id** references table **tbl_SubscriptionPlan**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|----------------------|------------------|-----------------|---|
| 1 | user_id | Integer | Primary Key | A unique identification number for each user. |
| 2 | username | Text | Not null | The chosen name that users use to identify themselves. |
| 3 | email | Text | Unique | The user's email address, which is unique to each user. |
| 4 | password | Text | Not null | The confidential code used for account access and security. |
| 5 | user_type | Text | Not null | The role or category that defines the user's purpose. |
| 6 | subscription_plan_id | Integer | Foreign key | A number linking the user to their chosen subscription. |

2. **tbl_Userprofile**

Primary Key: **creator_id**

Foreign Key: **user_id** references table **tbl_User**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|-------------------------------|------------------|-----------------|---------------------------|
| 1 | creator_id | Integer | Primary Key | Unique Creator Identifier |
| 2 | user_id | Integer | Foreign key | User Reference |
| 3 | portfolio_verification_status | Boolean | Not null | Portfolio Verification |
| 4 | approval_status | Boolean | Not null | Approval Status |

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|---|--------------------|------|----------|----------------------|
| 5 | profile_picture | Text | Not null | Profile Picture Path |
| 6 | portfolio_pdf_path | Text | Not null | Portfolio PDF Path |

3. **tbl_WallpaperCategory**

Primary Key: **category_id**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|---------------|------------------|-----------------|----------------------------|
| 1 | category_id | Integer | Primary key | Unique Category Identifier |
| 2 | category_name | Text | Not null | Category Name |

4. **tbl_WallpaperCollection**

Primary Key: **wallpaper_id**

Foreign Key: **creator_id** references table **tbl_ContentCreator**, **category_id** references table **tbl_WallpaperCategory**, **tag_id** references table **tbl_WallpaperTag**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|----------------|------------------|-----------------|-----------------------------|
| 1 | wallpaper_id | Integer | Primary key | Unique Wallpaper Identifier |
| 2 | creator_id | Integer | Foreign key | Creator's Identifier |
| 3 | category_id | Integer | Foreign key | Category Identifier |
| 4 | tag_id | Integer | Foreign key | Tag Identifier |
| 5 | title | Text | Not null | Wallpaper Title |
| 6 | description | Text | Not null | Wallpaper Description |
| 7 | upload_date | Date | Not null | Date of Upload |
| 8 | file_path | Text | Not null | File Path |
| 9 | premium_status | Boolean | Not null | Premium Status |
| 10 | price | Decimal | Not null | Wallpaper Price |

5. **tbl_Wallpaper Tag**

Primary Key: **tag_id**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|------------|---------------------|-----------------|-----------------------------|
| 1 | tag_id | Integer | Primary key | Unique Tag Identifier |
| 2 | tag_name | Text | Not null | Tag Name |

6. **tbl_Userinteraction**

Primary Key: **interaction_id**

Foreign Key: **user_id** references table **tbl_User**, **wallpaper_id** references table **tbl_Wallpaper**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|------------------|---------------------|-----------------|-------------------------------|
| 1 | interaction_id | Integer | Primary key | Unique Interaction Identifier |
| 2 | user_id | Integer | Foreign key | User Identifier |
| 3 | wallpaper_id | Integer | Foreign key | Wallpaper Identifier |
| 4 | interaction_type | Text | Not null | Type of Interaction |

7. **tbl_Subscription Plan**

Primary Key: **plan_id**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|-------------|---------------------|-----------------|-----------------------------|
| 1 | plan_id | Integer | Primary Key | Unique Plan Identifier |
| 2 | name | Text | Not null | Plan Name |
| 3 | price | Decimal | Not null | Plan Price |
| 4 | description | Text | Not null | Plan Description |
| 5 | duration | Text | Not null | Plan Duration |

8. **tbl_Imagecustomization**

Primary Key: **option_id**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|-------------|------------------|-----------------|--------------------------|
| 1 | option_id | Integer | Primary key | Unique Option Identifier |
| 2 | option_name | Text | Not null | Option Name |

9. **tbl_ImageCustomizationValue**

Primary Key: **value_id**

Foreign Key: **option_id** references table **tbl_ImageCustomizationOption**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|------------|------------------|-----------------|--------------------------|
| 1 | value_id | Integer | Primary Key | Unique Value Identifier |
| 2 | option_id | Integer | Foreign key | Option Identifier |
| 3 | value_name | Text | Not null | Value Name |

10. **tbl_WallpaperCustomization**

Primary Key: **customization_id**

Foreign Key: **wallpaper_id** references table **tbl_Wallpaper**, **user_id** references table **tbl_User**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|------------------|------------------|-----------------|---|
| 1 | customization_id | Integer | Primary Key | Unique Customization Identifier |
| 2 | wallpaper_id | Integer | Foreign key | Wallpaper Identifier |
| 3 | user_id | Integer | Foreign key | User Identifier |
| 4 | selected_options | JSON | Not null | JSON representation of Selected Options |

11. tbl_SubscriptionTransaction

Primary Key: **transaction_id**

Foreign Key: **user_id** references table **tbl_User**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|--------------------|------------------|-----------------|-------------------------------|
| 1 | transaction_id | Integer | Primary key | Unique Transaction Identifier |
| 2 | user_id | Integer | Foreign key | User Identifier |
| 3 | transaction_date | Date | Not null | Date of the Transaction |
| 4 | transaction_amount | Decimal | Not null | Transaction Amount |

12. tbl_SimilarImagePair

Primary Key: **pair_id**

Foreign Key: **original_wallpaper_id** references table **tbl_Wallpaper**, **similar_wallpaper_id** references table **tbl_Wallpaper**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|-----------------------|------------------|-----------------|--------------------------------------|
| 1 | pair_id | Integer | Primary Key | Unique Pair Identifier |
| 2 | original_wallpaper_id | Integer | Foreign key | Identifier of the Original Wallpaper |
| 3 | similar_wallpaper_id | Integer | Foreign key | Identifier of a Similar Wallpaper |

13. tbl_WallpaperFilter

Primary Key: **filter_id**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the filed |
|-----|-------------|------------------|-----------------|---------------------------|
| 1 | filter_id | Integer | Primary Key | Unique Filter Identifier |
| 2 | filter_name | Text | Not null | Filter Name |
| 3 | description | Text | Not null | Description of the filter |

14. **tbl_UserImageInteraction**

Primary Key: **interaction_id**

Foreign Key: **user_id** references table **tbl_User**, **wallpaper_id** references table **tbl_Wallpaper**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the field |
|-----|------------------|---------------------|-----------------|-------------------------------|
| 1 | interaction_id | Integer | Primary Key | Unique Interaction Identifier |
| 2 | user_id | Integer | Foreign key | User Identifier |
| 3 | wallpaper_id | Integer | Foreign key | Wallpaper Identifier |
| 4 | interaction_type | Text | Not null | Type of Interaction |

15. **tbl_CommunityPost**

Primary Key: **post_id**

Foreign Key: **user_id** references table **tbl_User**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the field |
|-----|--------------|------------------|-----------------|--------------------------|
| 1 | post_id | Integer | Primary Key | Unique Post Identifier |
| 2 | user_id | Integer | Foreign key | User Identifier |
| 3 | post_content | Text | Not null | Content of the post |
| 4 | post_date | Date | Not null | Date of the post |

16. **tbl_UserFeedback**

Primary Key: **feedback_id**

Foreign Key: **user_id** references table **tbl_User**, **wallpaper_id** references table **tbl_Wallpaper**

| No: | Field Name | Data Type (Size) | Key constraints | Description of the field |
|-----|--------------|---------------------|-----------------|----------------------------|
| 1 | feedback_id | Integer | Not null | Unique Feedback Identifier |
| 2 | user_id | Integer | Foreign key | User Identifier |
| 3 | wallpaper_id | Integer | Foreign key | Wallpaper Identifier |

| | | | | |
|---|---------|---------|----------|----------------------------------|
| 4 | rating | Integer | Not null | User rating for the wallpaper |
| 5 | comment | Text | Not null | User's comments on the wallpaper |