UserType Table

Field Name	Data Type	Constraints
utid	AUTO_INCREMENT (Primary Key)	Primary Key
usertype	VARCHAR(50)	Unique

User_Reg Table

Field Name	Data Type	Constraints
uid	AUTO_INCREMENT (Primary Key)	Primary Key
user_type	Foreign Key (UserType)	Relates to UserType.utid
first_name	VARCHAR(100)	
last_name	VARCHAR(100)	
phoneno	VARCHAR(15)	
date_time_reg	DATETIME	Auto-populated on registration
status	BOOLEAN	

Login Table

Field Name	Data Type	Constraints
login_id	AUTO_INCREMENT (Primary Key)	Primary Key
uid	Foreign Key (User_Reg)	Relates to User_Reg.uid
email	VARCHAR(255)	Unique, NOT NULL
password	VARCHAR(128)	
last_login	DATETIME	
last_logout	DATETIME	
login_count	INTEGER	
is_google_user	BOOLEAN	
google_id	VARCHAR(255)	

Expert Table

Field Name	Data Type	Constraints
expert_id	AUTO_INCREMENT (Primary Key)	Primary Key
user	Foreign Key (User_Reg)	One-to-One, Relates to User_Reg.uid
login	Foreign Key (Login)	One-to-One, Relates to Login.login_id
expertise_area	VARCHAR(255)	
qualifications	TEXT	
description	TEXT	
profile_picture	IMAGE	
specialization_tags	VARCHAR(255)	
availability_schedule	JSON	
availability_status	VARCHAR(20)	
consultation_fee	DECIMAL(10,2)	

rating	FLOAT	
consultation_count	INTEGER	
certifications	TEXT	
total_reviews	INTEGER	
blog_count	INTEGER	
contact_email	EMAIL	
contact_phone	VARCHAR(15)	
location	VARCHAR(255)	
languages	VARCHAR(255)	
date_time_joined	DATETIME	Auto-populated

DeliveryPersonnel Table

Field Name	Data Type	Constraints
delivery_id	AUTO_INCREMENT (Primary Key)	Primary Key
user	Foreign Key (User_Reg)	One-to-One, Relates to User_Reg.uid
current_latitude	FLOAT	
current_longitude	FLOAT	
area_of_delivery	VARCHAR(255)	
date_time_joined	DATETIME	Auto-populated
status	VARCHAR(20)	
assigned_orders	INTEGER	
completed_orders	INTEGER	
profile_picture	IMAGE	

Category Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
name	CharField(100)	Unique
description	TextField	
is_plant	BooleanField	
status	BooleanField	
created_on	DateTimeField	Auto now_add
updated_on	DateTimeField	Auto now

PlantType Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
name	CharField(100)	Unique
description	TextField	

Field Name	Data Type	Constraints
status	BooleanField	
created_on	DateTimeField	Auto now_add
updated_on	DateTimeField	Auto now
category_id	ForeignKey	References Category(id)

PlantCategory Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
name	CharField(100)	
description	TextField	
pot_soil	CharField(10)	Choices: pot, soil, both
sunlight_requirement	CharField(20)	Choices: Full Sun, Partial Sun, Full Shade, etc.
water_requirement	CharField(20)	Choices: Low, Medium, High
soil_type	CharField(20)	Choices: Loamy, Sandy, etc.
growth_rate	CharField(20)	Choices: Slow, Medium, Fast
climate_suitability	CharField(20)	Choices: Tropical, Temperate
best_time_to_plant	CharField(20)	Choices: Spring, Summer, etc.
status	BooleanField	
created_on	DateTimeField	Auto now_add
updated_on	DateTimeField	Auto now
plant_type_id	ForeignKey	References PlantType(id)

CultivationMethod Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
title	CharField(100)	
desc	TextField	
steps	TextField	
recommended_tools	TextField	
pit_size_height	DecimalField(5,2)	
pit_size_width	DecimalField(5,2)	
distance_between_plants	DecimalField(5,2)	
watering_frequency	CharField(50)	
fertilization_guidelines	TextField	
common_issues	TextField	
status	BooleanField	
created_on	DateTimeField	Auto now_add
updated_on	DateTimeField	Auto now
plant_category_id	ForeignKey	References PlantCategory(id)

Product Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
name	CharField(100)	
description	TextField	
image_1	ImageField	Upload to products/
image_2	ImageField	Upload to products/
image_3	ImageField	Upload to products/
status	BooleanField	
created_on	DateTimeField	Auto now_add
updated_on	DateTimeField	Auto now
plant_type_id	ForeignKey	References PlantType(id)
plant_category_id	ForeignKey	References PlantCategory(id)

Batch Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
current_height	CharField(50)	
price	DecimalField(10,2)	
stock_quantity	PositiveIntegerField	
no_of_plants	PositiveIntegerField	
discount	DecimalField(5,2)	
short_description	TextField	
status	BooleanField	
created_on	DateTimeField	Auto now_add
updated_on	DateTimeField	Auto now
product_id	ForeignKey	References Product(id)

Wishlist Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
email_id	ForeignKey	References Login(id)
batch_id	ForeignKey	References Batch(id)
added_on	DateTimeField	Auto now_add

Cart Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
user_id	ForeignKey	References Login(id)
created_on	DateTimeField	auto_now_add
updated_on	DateTimeField	auto_now
is_completed	BooleanField	

CartItem Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
cart_id	ForeignKey	References Cart(id)
batch_id	ForeignKey	References Batch(id)
quantity	PositiveIntegerField	
added_on	DateTimeField	auto_now_add

Billing Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
user_id	ForeignKey	References User_Reg(id)
first_name	CharField(30)	
last_name	CharField(30)	
district	CharField(50)	Choices: ['kottayam', 'pathanamthitta', 'idukki', 'thodupuzha', 'ernakulam']
street_address	CharField(255)	
town_city	CharField(50)	
postcode_zip	CharField(10)	
phone	CharField(15)	
email	EmailField	

Order Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
user_id	ForeignKey	References User_Reg(id)
billing_id	ForeignKey	References Billing(id)
cart_id	ForeignKey	References Cart(id)
status	CharField(20)	Choices: ['pending', 'assigned', 'picked_up', 'in_transit', 'delivered', 'cancel', 'return']
payment_status	CharField(20)	Choices: ['Pending', 'Success', 'Failed']
total_amount	DecimalField(10,2)	
razorpay_order_id	CharField(255)	
payment_date	DateTimeField	
order_date	DateTimeField	auto_now_add
delivery_date	DateTimeField	
assigned_delivery_person_id	ForeignKey	References DeliveryPersonnel(id)
delivery_location	CharField(255)	

OrderItem Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
order_id	ForeignKey	References Order(id)
product	CharField(255)	

batch_id	ForeignKey	References Batch(id)
quantity	PositiveIntegerField	
price	DecimalField(10,2)	
discount	DecimalField(5,2)	

Review Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
user_id	ForeignKey	References User_Reg(id)
product_id	ForeignKey	References Product(id)
order_id	ForeignKey	References Order(id)
rating	PositiveIntegerField	Choices: [(i, f"{i} Stars") for i in range(1, 6)]
comment	TextField	
review_date	DateTimeField	auto_now_add
reply	TextField	

Contact Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
name	CharField(100)	
email	EmailField(100)	
subject	CharField(100)	
message	TextField	
submitted_at	DateTimeField	auto_now_add
is_responded	BooleanField	

BlogPost Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
title	CharField(255)	
content	TextField	
images	ImageField	upload_to='blog_images/', blank=True, null=True
videos	FileField	upload_to='blog_videos/', blank=True, null=True
author	ForeignKey	References User_Reg(id)
is_public	BooleanField	
created_at	DateTimeField	auto_now_add
updated_at	DateTimeField	auto_now
status	CharField(10)	choices=[('draft', 'Draft'), ('published', 'Published')], default='draft'
like_count	PositiveIntegerField	
is_deleted	BooleanField	

BlogPostLike Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
user	ForeignKey	References User_Reg(id)
post	ForeignKey	References BlogPost(id)
created_at	DateTimeField	auto_now_add

BlogComment Table

Field Name	Data Type	Constraints
id	AutoField	Primary Key
post	ForeignKey	References BlogPost(id)
user	ForeignKey	References User_Reg(id)
comment	TextField	
parent_comment	ForeignKey	References BlogComment(id)
created_at	DateTimeField	auto_now_add

Expert Consultation Model in a tabular format:

Field Name	Data Type	Constraints
id	AutoField	Primary Key
user	ForeignKey	References User(id)
expert	ForeignKey	References User(id) limit_choices_to={'user_type': 'expert'}
question	TextField	Not Null
response	TextField	
date_asked	DateTimeField	Auto now_add
date_answered	DateTimeField	