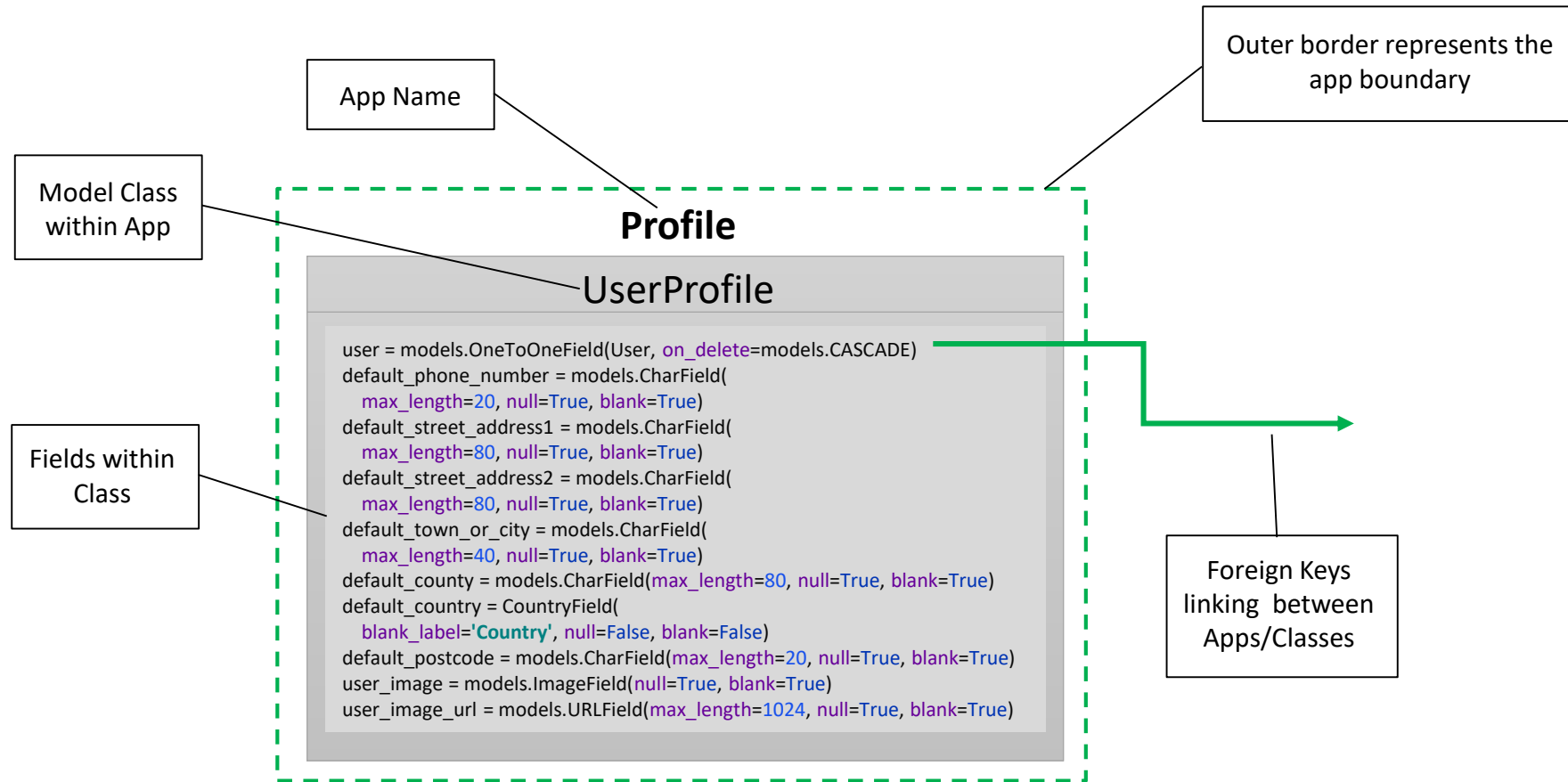# *FitClub* DB Schema

Individual model classes are represented by the grey boxes. These are then encompassed within the larger box depicting the parent app. Foreign relation is shown on the following slides with arrows from app to app and to relevant class.

Outer border represents the app boundary

App Name

Model Class within App

Profile

UserProfile

user = models.OneToOneField(User, on_delete=models.CASCADE)
default_phone_number = models.CharField(
    max_length=20, null=True, blank=True)
default_street_address1 = models.CharField(
    max_length=80, null=True, blank=True)
default_street_address2 = models.CharField(
    max_length=80, null=True, blank=True)
default_town_or_city = models.CharField(
    max_length=40, null=True, blank=True)
default_county = models.CharField(max_length=80, null=True, blank=True)
default_country = CountryField(
    blank_label='Country', null=False, blank=False)
default_postcode = models.CharField(max_length=20, null=True, blank=True)
user_image = models.ImageField(null=True, blank=True)
user_image_url = models.URLField(max_length=1024, null=True, blank=True)

Fields within Class

Foreign Keys linking between Apps/Classes

Schema legend

User
(from Django.contrib.auth)

User
+ username
+ first_name
+ last_name
+ email
+ password
+ groups
+ user_permissions
+ is_staff
+ is_active
+ is_superuser
+ last_login
+ date_joined

Profile

UserProfile
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default_phone_number = models.CharField(
    max_length=20, null=True, blank=True)
default_street_address1 = models.CharField(
    max_length=80, null=True, blank=True)
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    max_length=80, null=True, blank=True)
default_town_or_city = models.CharField(
    max_length=40, null=True, blank=True)
default_county = models.CharField(max_length=80, null=True, blank=True)
default_country = CountryField(
    blank_label='Country', null=False, blank=False)
default_postcode = models.CharField(max_length=20, null=True, blank=True)
user_image = models.ImageField(null=True, blank=True)
user_image_url = models.URLField(max_length=1024, null=True, blank=True)
```

Products

Product
```
category = models.ForeignKey('Category', null=True, blank=True,
    on_delete=models.SET_NULL)
sku = models.CharField(max_length=254, null=True, blank=True)
name = models.CharField(max_length=254)
description = models.TextField()
price = models.DecimalField(max_digits=6, decimal_places=2)
image_url = models.URLField(max_length=1024, null=True, blank=True)
image = models.ImageField(null=True, blank=True)
```

Category
```
name = models.CharField(max_length=254, )
friendly_name = models.CharField(max_length=254, null=True, blank=True)
```

Reviews
```
review_title = models.CharField(max_length=80, blank=False, null=True)
created_by = models.ForeignKey(UserProfile, null=True,                 related_name='reviews',
    on_delete=models.CASCADE)
product = models.ForeignKey(Product, null=False, on_delete=models.CASCADE)
review_description = models.CharField(max_length=500, blank=True)
review_date = models.DateTimeField(auto_now_add=True)
```

Checkout

Order
```
order_number = models.CharField(max_length=32, null=False, editable=False)
user_profile = models.ForeignKey(UserProfile, on_delete=models.SET_NULL,
    null=True, blank=True, related_name='orders')
full_name = models.CharField(max_length=50, null=False, blank=False)
email = models.EmailField(max_length=254, null=False, blank=False)
phone_number = models.CharField(max_length=20, null=False, blank=False)
country = CountryField(blank_label='Country *', null=False, blank=False)
postcode = models.CharField(max_length=20, null=True, blank=True)
town_or_city = models.CharField(max_length=40, null=False, blank=False)
street_address1 = models.CharField(max_length=80, null=False, blank=False)
street_address2 = models.CharField(max_length=80, null=True, blank=True)
county = models.CharField(max_length=80, null=True, blank=True)
date = models.DateTimeField(auto_now_add=True)
delivery_cost = models.DecimalField( max_digits=6, decimal_places=2, null=False,
    default=0)
order_total = models.DecimalField(
    max_digits=10, decimal_places=2, null=False, default=0)
grand_total = models.DecimalField( max_digits=10, decimal_places=2, null=False,
    default=0)
original_bag = models.TextField(null=False, blank=False, default='')
stripe_pid = models.CharField( max_length=254, null=False, blank=False, default='')
```

OrderLineItem
```
order = models.ForeignKey(Order, null=False, blank=False,
            on_delete=models.CASCADE, related_name='lineitems')
product = models.ForeignKey(
    Product, null=False, blank=False, on_delete=models.CASCADE)
quantity = models.IntegerField(null=False, blank=False, default=0)
lineitem_total = models.DecimalField(
    max_digits=6, decimal_places=2, null=False, blank=False, editable=False)
```

Forum

Forum
```
name = models.CharField(max_length=50, unique=True, default=True)
description = models.CharField(max_length=80)
```

Topic
```
subject = models.CharField(max_length=255)
forum = models.ForeignKey(Forum, related_name='topics',
    on_delete=models.CASCADE)
originator = models.ForeignKey(UserProfile, related_name='topics',
    on_delete=models.CASCADE)
last_updated = models.DateTimeField(auto_now_add=True)
```

Posts
```
message = models.TextField(max_length=500)
topic = models.ForeignKey(Topic, related_name='posts',
    on_delete=models.CASCADE)
created_at = models.DateTimeField(auto_now_add=True)
updated_at = models.DateTimeField(null=True)
created_by = models.ForeignKey(UserProfile, related_name='posts',
    on_delete=models.CASCADE)
updated_by = models.ForeignKey(UserProfile, null=True, related_name='+',
    on_delete=models.CASCADE)
```

The FitClub DB is represented here with the 4 apps and related Models. Currently 2 fields, 'updated_at' and 'updated_by' within the Posts Model class in the Forum app are unused but can be utilised in future development.