Team ID	PNT2022TMID03711
Project Name	Smart solution for Railways.

PAYMENT

from django.contrib.auth.base_user import AbstractBaseUser from django.db import models

```
class User(AbstractBaseUser):
  ,,,,,,
  User model.
  USERNAME_FIELD = "email"
  REQUIRED_FIELDS = ["first_name", "last_name"]
  email = models.EmailField(
    verbose_name="E-mail",
    unique=True
  )
  first_name = models.CharField(
    verbose_name="First name",
    max_length=30
  )
  last_name = models.CharField(
    verbose_name="Last name",
```

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max_length=40
  )
  city = models.CharField(
    verbose_name="City",
    max_length=40
  )
  stripe_id = models.CharField(
    verbose_name="Stripe ID",
    unique=True,
    max_length=50,
    blank=True,
    null=True
  )
  objects = UserManager()
  @property
  def get_full_name(self):
    return f"{self.first_name} {self.last_name}"
  class Meta:
    verbose_name = "User"
    verbose\_name\_plural = "Users"
class Profile(models.Model):
  ,,,,,,
  User's profile.
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```
phone_number = models.CharField(
    verbose_name="Phone number",
    max_length=15
  )
  date_of_birth = models.DateField(
    verbose_name="Date of birth"
  )
  postal_code = models.CharField(
    verbose_name="Postal code",
    max_length=10,
    blank=True
  )
  address = models.CharField(
    verbose_name="Address",
    max_length=255,
    blank=True
  )
  class Meta:
    abstract = True
class UserProfile(Profile):
  ,,,,,,
  User's profile model.
```

```
** ** **
  user = models.OneToOneField(
    to=User, on_delete=models.CASCADE, related_name="profile",
  )
  group = models.CharField(
    verbose_name="Group type",
    choices=GroupTypeChoices.choices(),
    max_length=20,
    default = Group Type Choices. EMPLOYEE. name,\\
  )
  def __str__(self):
    return self.user.email
  class Meta:
# user 1 - employer
user1, _ = User.objects.get_or_create(
  email="foo@bar.com",
  first_name="Employer",
  last_name="Testowy",
  city="Białystok",
)
user1.set_unusable_password()
```

group_name = "employer"

```
_profile1, _ = UserProfile.objects.get_or_create(
  user=user1,
  date_of_birth=datetime.now() - timedelta(days=6600),
  group=GroupTypeChoices(group_name).name,
  address="Myśliwska 14",
  postal_code="15-569",
  phone_number="+48100200300",
)
# user2 - employee
user2, _ = User.objects.get_or_create()
  email="bar@foo.com",
  first_name="Employee",
  last_name="Testowy",
  city="Białystok",
)
user2.set_unusable_password()
group_name = "employee"
_profile2, _ = UserProfile.objects.get_or_create()
  user=user2,
  date_of_birth=datetime.now() - timedelta(days=7600),
  group=GroupTypeChoices(group_name).name,
  address="Myśliwska 14",
  postal_code="15-569",
  phone_number="+48200300400",
)
```

```
response_customer = stripe.Customer.create()
  email=user.email,
  description=f"EMPLOYER - {user.get_full_name}",
  name=user.get_full_name,
  phone=user.profile.phone_number,
)
user1.stripe_id = response_customer.stripe_id
user1.save()
mcc_code, url = "1520", "https://www.softserveinc.com/"
response_ca = stripe.Account.create()
  type="custom",
  country="PL",
  email=user2.email,
  default_currency="pln",
  business_type="individual",
  settings={"payouts": {"schedule": {"interval": "manual", }}},
  requested_capabilities=["card_payments", "transfers", ],
  business_profile={"mcc": mcc_code, "url": url},
  individual={
     "first_name": user2.first_name,
     "last_name": user2.last_name,
     "email": user2.email,
     "dob": {
       "day": user2.profile.date_of_birth.day,
       "month": user2.profile.date_of_birth.month,
       "year": user2.profile.date_of_birth.year,
     },
```

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"phone": user2.profile.phone_number,
     "address": {
       "city": user2.city,
       "postal_code": user2.profile.postal_code,
       "country": "PL",
       "line1": user2.profile.address,
     },
  },
)
user2.stripe_id = response_ca.stripe_id
user2.save()
tos_acceptance = {"date": int(time.time()), "ip": user_ip},
stripe.Account.modify(user2.stripe_id, tos_acceptance=tos_acceptance)
passport_front = stripe.File.create(
  purpose="identity_document",
  file=_file, # ContentFile object
  stripe_account=user2.stripe_id,
)
individual = {
  "verification": {
     "document": { "front": passport_front.get("id"), },
     "additional_document": {"front": passport_front.get("id"),},
  }
}
```

```
stripe.Account.modify(user2.stripe_id, individual=individual)
new_card_source = stripe.Customer.create_source(user1.stripe_id, source=token)
stripe.SetupIntent.create(
  payment_method_types=["card"],
  customer=user1.stripe_id,
  description="some description",
  payment_method=new_card_source.id,
)
payment_method = stripe.Customer.retrieve(user1.stripe_id).default_source
payment_intent = stripe.PaymentIntent.create(
  amount=amount,
  currency="pln",
  payment_method_types=["card"],
  capture_method="manual",
  customer=user1.stripe_id, # customer
  payment_method=payment_method,
  application_fee_amount=application_fee_amount,
  transfer_data={"destination": user2.stripe_id}, # connect account
  description=description,
  metadata=metadata,
)
payment_intent_confirm = stripe.PaymentIntent.confirm(
  payment_intent.stripe_id, payment_method=payment_method
)
```

```
stripe.PaymentIntent.capture(
    payment_intent.id, amount_to_capture=amount
)
stripe.Balance.retrieve(stripe_account=user2.stripe_id)
stripe.Charge.create(
    amount=amount,
    currency="pln",
    source=user2.stripe_id,
    description=description
)
stripe.PaymentIntent.cancel(payment_intent.id)
```