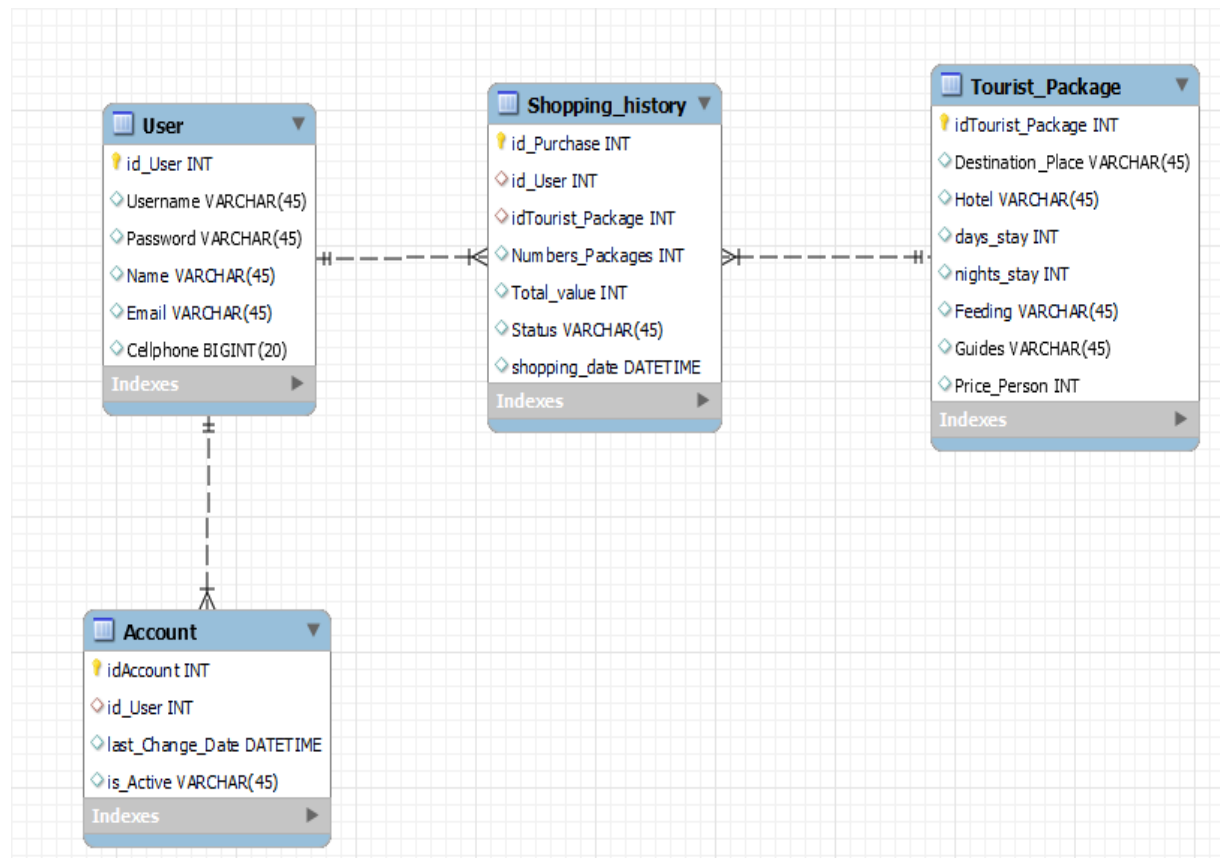


SPRINT #2

Modelo Relacional, sólo para basarnos (no tener en cuenta las relaciones entre modelos).



Funcionalidades del microservicio:

Sign Up-Account:

Tienen como función todo lo referente al proceso de registro y autenticación, basado en el JWT Token.

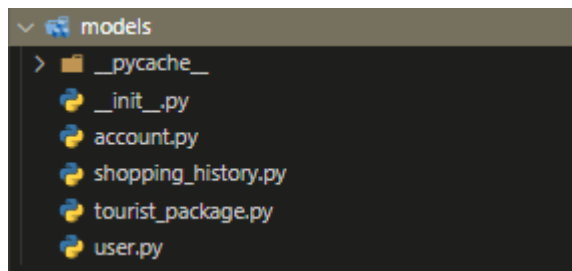
Shopping History:

Este cumple dos tareas, la primera es mantener el registro de compras realizadas por todos los usuarios por lo que tiene como llave foránea el id del usuario y por otro lado el id del paquete que compro. La segunda tarea que realiza gracias a una vista es filtrar el historial de compras de un usuario en particular.

Tourist Package:

La función de este modelo es poder mantener una especie de inventario con los paquetes que ofrece la empresa. Cada paquete contiene su información correspondiente.

Modelos:



User:

```
class User(AbstractBaseUser, PermissionsMixin):
    id = models.BigAutoField(primary_key=True)
    username = models.CharField('Username', max_length = 15, unique=True)
    password = models.CharField('Password', max_length = 256)
    name = models.CharField('Name', max_length = 30)
    email = models.EmailField('Email', max_length = 100)
    cellphone = models.CharField('Cellphone', max_length = 15, default="NONE")
    def save(self, **kwargs):
        some_salt = 'mMUj0DrIK6vgtdIYepkIxN'
        self.password = make_password(self.password, some_salt)
        super().save(**kwargs)
    objects = UserManager()
    USERNAME_FIELD = 'username'

    def __str__(self):
        return self.id
```

Account:

```
from django.db import models
from .user import User
class Account(models.Model):
    id = models.AutoField(primary_key=True)
    user = models.ForeignKey(User, related_name='account', on_delete=models.CASCADE)
    lastChangeDate = models.DateTimeField()
    isActive = models.BooleanField(default=True)
```

Shopping_history:

```
from django.db import models
from .user import User
from .tourist_package import TouristPackage
from datetime import datetime, date

class ShoppingHistory(models.Model):
    Id_Purchase = models.AutoField(primary_key=True, null=False)
    Id_user = models.ForeignKey(User, on_delete=models.CASCADE)
    Id_tourist_package = models.ForeignKey(TouristPackage, on_delete=models.CASCADE)
    Amount_package = models.IntegerField(null=False, blank=False)
    Total_value = models.FloatField(null=False, blank=False)
    Status = models.CharField(max_length=50, null=False, blank=False)
    Shopping_Date = models.DateTimeField(auto_now_add=True)
```

Tourist_package:

```
from django.db import models
from datetime import datetime, date

class TouristPackage(models.Model):
    Id_tourist_package = models.AutoField(primary_key=True, null=False)
    Destination_place=models.CharField(max_length=50, null=False)
    Hotel=models.CharField(max_length=50, null=False)
    Days_stay = models.IntegerField(null=False, blank=False)
    Nights_stay = models.IntegerField(null=False, blank=False)
    Feeding = models.BooleanField(default=True)
    Guides= models.BooleanField(default=True)
    Price_Person= models.IntegerField(null=False, blank=False)
    def __str__(self):
        return self.Id_tourist_package
```

Serializers:

```
serializers
├── __pycache__
├── __init__.py
├── accountSerializer.py
├── shopping_historySerializer.py
├── tourist_packageSerializer.py
└── userSerializer.py
```

AccountSerializer:

```
from authshoppingapp.models.account import Account
from rest_framework import serializers
class AccountSerializer(serializers.ModelSerializer):
    class Meta:
        model = Account
        fields = ['lastChangeDate', 'isActive']
```

Shopping_historySerializer:

```
from authshoppingapp.models.shopping_history import ShoppingHistory
from rest_framework import serializers

class ShoppingHistorySerializer(serializers.ModelSerializer):
    class Meta:
        model=ShoppingHistory
        fields=["Id_user", "Id_tourist_package", "Amount_package", "Total_value", "Status"]
```

Tourist_packageSerializer:

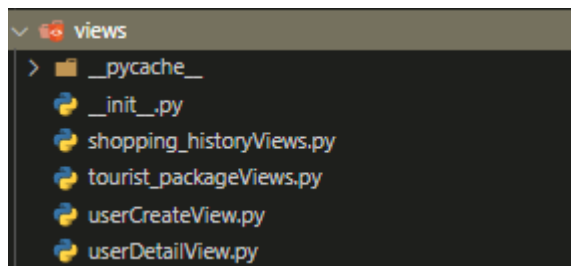
```
from authshoppingapp.models.tourist_package import TouristPackage
from rest_framework import serializers
class TouristPackageSerializer(serializers.ModelSerializer):
    class Meta:
        model = TouristPackage
        fields = ["Destination_place", "Hotel", "Days_stay", "Nights_stay", "Feeding", "Guides", "Price_Person"]
```

UserSerializer:

```
from rest_framework import serializers
from authshoppingapp.models.user import User
from authshoppingapp.models.account import Account
from authshoppingapp.serializers.accountSerializer import AccountSerializer

class UserSerializer(serializers.ModelSerializer):
    account = AccountSerializer()
    class Meta:
        model = User
        fields = ['id', 'username', 'password', 'name', 'email', "cellphone", 'account']
    def create(self, validated_data):
        accountData = validated_data.pop('account')
        userInstance = User.objects.create(**validated_data)
        Account.objects.create(user=userInstance, **accountData)
        return userInstance
    def to_representation(self, obj):
        user = User.objects.get(id=obj.id)
        account = Account.objects.get(user=obj.id)
        return {
            'id': user.id,
            'username': user.username,
            'name': user.name,
            'email': user.email,
            "cellphone": user.cellphone,
            'account': {
                'id': account.id,
                'lastChangeDate': account.lastChangeDate,
                'isActive': account.isActive
            }
        }
}
```

Vistas:



Tourist_packageViews:

```
from authshoppingapp.models.tourist_package import TouristPackage
from authshoppingapp.serializers.tourist_packageSerializer import TouristPackageSerializer
from rest_framework import generics

class TouristPackageListCreateView(generics.ListCreateAPIView):
    queryset = TouristPackage.objects.all()
    serializer_class = TouristPackageSerializer

class TouristPackageRetrieveUpdateDestroy(generics.RetrieveUpdateDestroyAPIView):
    queryset = TouristPackage.objects.all()
    serializer_class = TouristPackageSerializer
```

UserDetailView:

```
from django.conf import settings
from rest_framework import generics, status
from rest_framework.response import Response
from rest_framework_simplejwt.backends import TokenBackend
from rest_framework.permissions import IsAuthenticated
from authshoppingapp.models.user import User
from authshoppingapp.serializers.userSerializer import UserSerializer
class UserDetailView(generics.RetrieveAPIView):
    queryset = User.objects.all()
    serializer_class = UserSerializer
    permission_classes = (IsAuthenticated,)
    def get(self, request, *args, **kwargs):
        token = request.META.get('HTTP_AUTHORIZATION')[7:]
        tokenBackend = TokenBackend(algorithm=settings.SIMPLE_JWT['ALGORITHM'])
        valid_data = tokenBackend.decode(token, verify=False)
        if valid_data['user_id'] != kwargs['pk']:
            stringResponse = {'detail': 'Unauthorized Request'}
            return Response(stringResponse, status=status.HTTP_401_UNAUTHORIZED)
        return super().get(request, *args, **kwargs)
```

UserCreateView:

```
from rest_framework import status, views
from rest_framework.response import Response
from rest_framework_simplejwt.serializers import TokenObtainPairSerializer
from authshoppingapp.serializers.userSerializer import UserSerializer
class UserCreateView(views.APIView):
    def post(self, request, *args, **kwargs):
        serializer = UserSerializer(data=request.data)
        serializer.is_valid(raise_exception=True)
        serializer.save()
        tokenData = {"username": request.data["username"],
                    "password": request.data["password"]}
        tokenSerializer = TokenObtainPairSerializer(data=tokenData)
        tokenSerializer.is_valid(raise_exception=True)
        return Response(tokenSerializer.validated_data, status=status.HTTP_201_CREATED)
```

ShoppingHistoryViews:

```
from authshoppingapp.models.shopping_history import ShoppingHistory
from authshoppingapp.serializers.shopping_historySerializer import ShoppingHistorySerializer
from rest_framework import generics
class ShoppingHistoryListCreateView(generics.ListCreateAPIView):
    queryset = ShoppingHistory.objects.all()
    serializer_class = ShoppingHistorySerializer
class ShoppingHistoryRetrieveUpdateDestroy(generics.RetrieveUpdateDestroyAPIView):
    queryset = ShoppingHistory.objects.all()
    serializer_class = ShoppingHistorySerializer
class UserHistory(generics.ListAPIView):
    serializer_class = ShoppingHistorySerializer
    def get_queryset(self):
        queryset = ShoppingHistory.objects.filter(Id_user= self.kwargs["pk"])
        return queryset
```

URLS:

```
from django.urls import path
from rest_framework_simplejwt.views import (TokenObtainPairView, TokenRefreshView)
from authshoppingapp import views

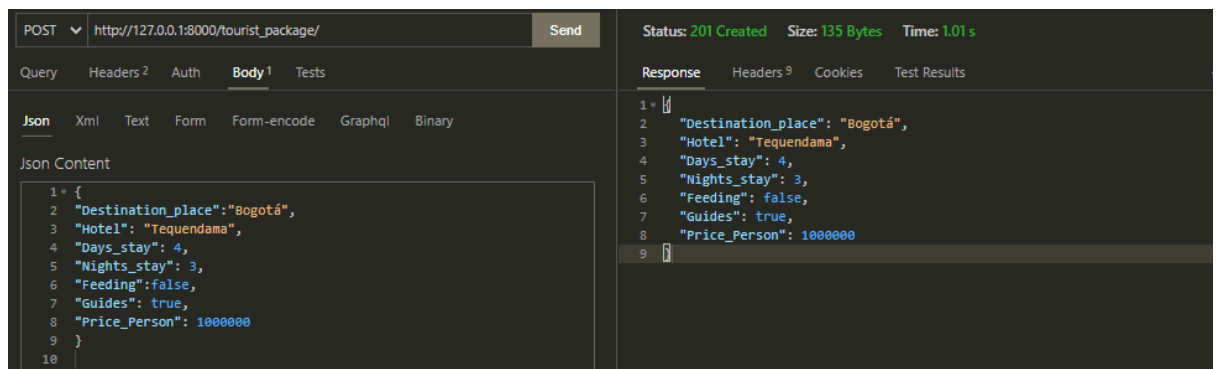
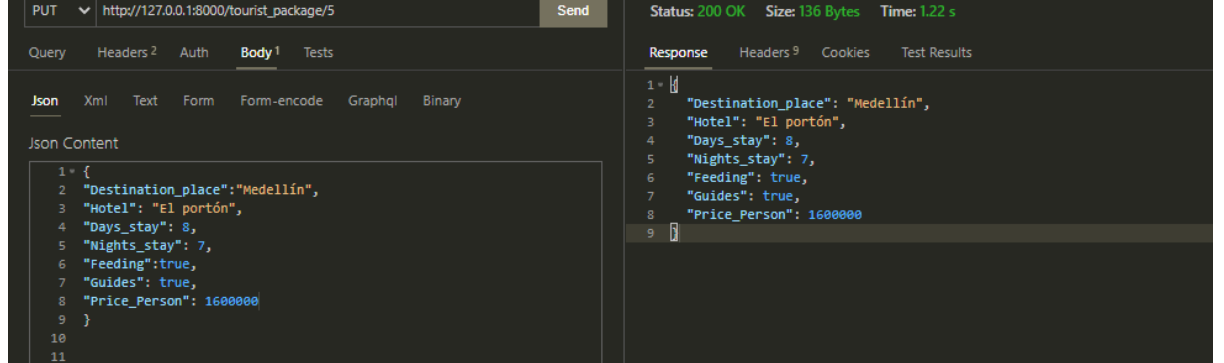
urlpatterns = [
    path('login/', TokenObtainPairView.as_view()),
    path('refresh/', TokenRefreshView.as_view()),
    path('user/', views.UserCreateView.as_view()),
    path('user/<int:pk>', views.UserDetailView.as_view()),
    path('tourist_package/', views.TouristPackageListView.as_view()),
    path('tourist_package/<int:pk>', views.TouristPackageRetrieveUpdateDestroy.as_view()),
    path('shoppinghistory/', views.ShoppingHistoryListView.as_view()),
    path('shoppinghistory/<int:pk>', views.ShoppingHistoryRetrieveUpdateDestroy.as_view()),
    path('shoppinghistory/user/<int:pk>', views.UserHistory.as_view()),
]
```

Pruebas en los endpoints:

Registro de Usuario:

POST	http://127.0.0.1:8000/user/	Send	Status: 201 Created	Size: 483 Bytes	Time: 2.24 s			
Query	Headers ²	Auth	Body ¹	Tests	Response			
Json			Xml	Text	Form	Form-encode	GraphQL	Binary
Json Content			1 * { 2 "username": "fjgomezpe", 3 "password": "contraseña", 4 "name": "francisco", 5 "email": "fjgomezpe@misionTIC.com", 6 "account": { 7 "lastChangeDate": "2021-09-23T10:25:43.511Z", 8 "isActive": true 9 } 10 }			1 * { 2 "refresh": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9. .eyJ0b2t1b190eXB1IjoicmVmcVZaCiSiImV4cCI6MTYzNzUzMjg3NCwiaWF0IjoxNjM3NDQ2NDc0LCJqdGkiOiJmZGFhbmNlMzkyYjM0MmMxODcwM2NkZDY1MzZmYzVlMyIsI nVZzX3fawQiojF9.s3D0dFHSVzs60NdbJ_17ca8BwUaoSo0-IL0UXofg_o", 3 "access": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9. .eyJ0b2t1b190eXB1IjoicmVmcVZaCiSiImV4cCI6MTYzNzUzMjg3NCwiaWF0IjoxNjM3NDQ2NDc0LCJqdGkiOiJmZGFhbmNlMzkyYjM0MmMxODcwM2NkZDY1MzZmYzVlMyIsI c0NDY0NzQsImp0aSI6ImNmNTBkMjcYbWVhZDQyYjM0MmMxODcwM2NkZDY1MzZmYzVlMyIsI XNlc19pZCI6MmMxODcwM2NkZDY1MzZmYzVlMyIsI 4 }		
Format								

POST	http://127.0.0.1:8000/user/	Send	Status: 201 Created	Size: 483 Bytes	Time: 1.50 s			
Query	Headers ²	Auth	Body ¹	Tests	Response			
Json			Xml	Text	Form	Form-encode	GraphQL	Binary
Json Content			1 * { 2 "username": "Ramon22", 3 "password": "contraseña12", 4 "name": "Ramon", 5 "email": "ram8i7@misionTIC.com", 6 "cellphone": "3128182730", 7 "account": { 8 "lastChangeDate": "2021-09-23T10:25:43.511Z", 9 "isActive": true 10 } 11 } 12 }			1 * { 2 "refresh": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9. .eyJ0b2t1b190eXB1IjoicmVmcVZaCiSiImV4cCI6MTYzNzUzMjg3NCwiaWF0IjoxNjM3NDU1MzU4LCJqdGkiOiJmZGFhbmNlMzkyYjM0MmMxODcwM2NkZDY1MzZmYzVlMyIsI nVZzX3fawQiojZ9.7ohaDoPK3Zs0S5GLmNmMvFTRB6457CldVclqmmfaRfe", 3 "access": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9. .eyJ0b2t1b190eXB1IjoicmVmcVZaCiSiImV4cCI6MTYzNzUzMjg3NCwiaWF0IjoxNjM3NDU1MzU4LCJqdGkiOiJmZGFhbmNlMzkyYjM0MmMxODcwM2NkZDY1MzZmYzVlMyIsI c0NTUzNTgsImp0aSI6ImNmNTBkMjcYbWVhZDQyYjM0MmMxODcwM2NkZDY1MzZmYzVlMyIsI XNlc19pZCI6NmMxODcwM2NkZDY1MzZmYzVlMyIsI 4 }		
Format								



Registro de Compra:

POSThttp://127.0.0.1:8000/shoppinghistory/Send

QueryHeaders 2AuthBody 1Tests

JsonXmlTextFormForm-encodeGraphqlBinary

Json Content

```
1 {
2   "Id_user":1,
3   "Id_tourist_package":4,
4   "Amount_package":3,
5   "Total_value": 4800000,
6   "Status": "Accepted"
7 }
8
```

Status: 201 CreatedSize: 99 BytesTime: 1.33 s

ResponseHeaders 9CookiesTest Results

```
1 {
2   "Id_user": 1,
3   "Id_tourist_package": 4,
4   "Amount_package": 3,
5   "Total_value": 4800000,
6   "Status": "Accepted"
7 }
```

GEThttp://127.0.0.1:8000/shoppinghistory/8Send

QueryHeaders 2AuthBodyTests

Http Headers

Accept*/

User-AgentThunder Client (https://www.thunderclient.i

Status: 200 OKSize: 99 BytesTime: 1.17 s

ResponseHeaders 9CookiesTest Results

```
1 {
2   "Id_user": 1,
3   "Id_tourist_package": 4,
4   "Amount_package": 3,
5   "Total_value": 4800000,
6   "Status": "Accepted"
7 }
```

Vista Especial para obtener el Historial de Compras de un usuario en específico:

GEThttp://127.0.0.1:8000/shoppinghistory/user/1Send

QueryHeaders 2AuthBody 1Tests

JsonXmlTextFormForm-encodeGraphqlBinary

Form Fields

Status: 200 OKSize: 201 BytesTime: 1.10 s

ResponseHeaders 9CookiesTest Results

```
1 {
2   {
3     "Id_user": 1,
4     "Id_tourist_package": 4,
5     "Amount_package": 3,
6     "Total_value": 4800000,
7     "Status": "Accepted"
8   },
9   {
10    "Id_user": 1,
11    "Id_tourist_package": 1,
12    "Amount_package": 2,
13    "Total_value": 3000000,
14    "Status": "Accepted"
15  }
16 }
```

GEThttp://127.0.0.1:8000/shoppinghistory/user/8Send

QueryHeaders 2AuthBody 1Tests

JsonXmlTextFormForm-encodeGraphqlBinary

Form Fields

Status: 200 OKSize: 301 BytesTime: 1.06 s

ResponseHeaders 9CookiesTest Results

```
1 {
2   {
3     "Id_user": 8,
4     "Id_tourist_package": 7,
5     "Amount_package": 1,
6     "Total_value": 1350000,
7     "Status": "Accepted"
8   },
9   {
10    "Id_user": 8,
11    "Id_tourist_package": 5,
12    "Amount_package": 2,
13    "Total_value": 3200000,
14    "Status": "Accepted"
15  }
16 },
17 {
18   "Id_user": 8,
19   "Id_tourist_package": 1,
20   "Amount_package": 1,
21   "Total_value": 1500000,
```


authshoppingapp_shoppinghistory X					authshoppingapp_touristpackage X			authshoppingapp_user X
Id_Purchase	Amount_package	Total_value	Status	Shopping_Date	Id_tourist_package_id	Id_user_id		
8	3	4800000	Accepted	2021-11-21 01:5...	4 →	1 →		
9	2	3000000	Accepted	2021-11-21 01:5...	1 →	1 →		
10	4	6000000	Accepted	2021-11-21 01:5...	1 →	4 →		
11	5	6000000	Accepted	2021-11-21 01:5...	2 →	6 →		
12	1	1350000	Accepted	2021-11-21 02:3...	7 →	8 →		
13	2	3200000	Accepted	2021-11-21 02:3...	5 →	8 →		
14	1	1500000	Accepted	2021-11-21 02:3...	1 →	8 →		

authshoppingapp_shoppinghistory X				authshoppingapp_touristpackage X				authshoppingapp_user X
Id_tourist_package	Destination_place	Hotel	Days_stay	Nights_stay	Feeding	Guides	Price_Person	
1	San Andrés	Decamerón	4	3	TRUE	TRUE	1500000	
2	Cartagena de Indias	Bocagrande	5	5	FALSE	FALSE	1200000	
4	Medellín	El portón	7	6	TRUE	TRUE	1600000	
5	Medellín	El portón	8	7	TRUE	TRUE	1600000	
6	Santa Marta	El reposo	4	3	TRUE	TRUE	1457000	
7	Bucaramanga	Chicamocha	6	5	TRUE	TRUE	1350000	

authshoppingapp_shoppinghistory X					authshoppingapp_touristpackage X			authshoppingapp_user X
last_login	is_superuser	id	username	password	name	email	cellphone	
NULL	FALSE	1	fjomezpe	pbkdf2_sh...	francisco	fjomezpe@misionTIC.co...	NONE	
NULL	FALSE	2	dlopez	pbkdf2_sh...	Daniel	dlopezpe@misionTIC.com	NONE	
NULL	FALSE	3	Andre11e	pbkdf2_sh...	Andrea	andrepe@misionTIC.com	NONE	
NULL	FALSE	4	Mat8811e	pbkdf2_sh...	Matias	mat8907@misionTIC.com	NONE	
NULL	FALSE	5	Juan4411e	pbkdf2_sh...	Juan	juan2907@misionTIC.com	NONE	
NULL	FALSE	6	Ramon22	pbkdf2_sh...	Ramon	ram87@misionTIC.com	3128182730	
NULL	FALSE	7	Monica33	pbkdf2_sh...	Monica	moni7@misionTIC.com	3123282736	
NULL	FALSE	8	Mari800	pbkdf2_sh...	Maria Fernanda	mari87ni7@misionTIC.com	3128888888	

Despliegue con docker:

```
(env) C:\Users\David\Desktop\auth_shopping>heroku container:push web --app authshoppingdespliegue
» Warning: heroku update available from 7.53.0 to 7.59.0.
=== Building web (C:\Users\David\Desktop\auth_shopping\Dockerfile)
[+] Building 447.7s (11/11) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 284B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3
=> [auth] library/python:pull token for registry-1.docker.io
=> [1/5] FROM docker.io/library/python:3@sha256:f44726de10d15558e465238b02966a8f83971fd85a4c4b95c263704e6a6012e9
=> resolve docker.io/library/python:3@sha256:f44726de10d15558e465238b02966a8f83971fd85a4c4b95c263704e6a6012e9
=> sha256:f44726de10d15558e465238b02966a8f83971fd85a4c4b95c263704e6a6012e9 2.60kB / 2.60kB
=> sha256:9f4d271aefc02809b04fa2367895c173cbf2ad03a9b94d7b385498a826d2ce 2.22kB / 2.22kB
=> sha256:f48ea80eae5a5683e2a734cf4697827339af3ced11e26d0ad58433dd6f6fac24f 8.62kB / 8.62kB
=> sha256:e1ad2231829e42e6f095971b5d2dc143d97db2d0870571ba4d29ecd599db62cb 10.87MB / 10.87MB
=> sha256:647acf3d48c2780e00cd27bb0984367415f270d78477ef9d5b238e6ebd5290da 54.93MB / 54.93MB
=> sha256:b02967ef003473d9adc6e20868d9d66af85b0871919bcec92419f65c974aa8ce 5.15MB / 5.15MB
=> sha256:5576ce26bf1df68da60eeb5162dccde1b69f865d2815aba8b2d29e7181aeb62b 54.57MB / 54.57MB
=> sha256:a66b7f31b095b7fa01d8ba10e600a192bab43a1311f50216cf6fa9a45d0f435e 196.50MB / 196.50MB
=> sha256:05189b5b27621c90d2dc99c54b36bf5820bb377d96a9947cd1a81438eae46ddf 6.29MB / 6.29MB
=> sha256:af08e8fda0d6cb4f0394e2d81bc7c3e00c44d04f28c79b195e3e20e53e9e29b8 19.11MB / 19.11MB
=> sha256:287d56f7527b558bbad5f0dd5f529eb1d161d549cd7634990b203ea1af123f23 233B / 233B
=> sha256:dc0580965fb016fadf90963a71fdd042a099f6043e816155fb2388c2c78e6a7 2.35MB / 2.35MB
=> extracting sha256:647acf3d48c2780e00cd27bb0984367415f270d78477ef9d5b238e6ebd5290da
=> extracting sha256:b02967ef003473d9adc6e20868d9d66af85b0871919bcec92419f65c974aa8ce
=> extracting sha256:e1ad2231829e42e6f095971b5d2dc143d97db2d0870571ba4d29ecd599db62cb
=> extracting sha256:5576ce26bf1df68da60eeb5162dccde1b69f865d2815aba8b2d29e7181aeb62b
=> extracting sha256:a66b7f31b095b7fa01d8ba10e600a192bab43a1311f50216cf6fa9a45d0f435e
=> extracting sha256:05189b5b27621c90d2dc99c54b36bf5820bb377d96a9947cd1a81438eae46ddf
=> extracting sha256:af08e8fda0d6cb4f0394e2d81bc7c3e00c44d04f28c79b195e3e20e53e9e29b8
=> extracting sha256:287d56f7527b558bbad5f0dd5f529eb1d161d549cd7634990b203ea1af123f23
=> extracting sha256:dc0580965fb016fadf90963a71fdd042a099f6043e816155fb2388c2c78e6a7
=> [internal] load build context
=> => transferring context: 48.46MB
=> [2/5] RUN mkdir /users
=> [3/5] WORKDIR /users
=> [4/5] ADD . /users/
=> [5/5] RUN pip install -r requirements.txt
=> exporting to image
=> => exporting layers
```

Page not found (404)

Request Method: GET

Request URL: <http://authshoppingdespliegue.herokuapp.com/>

Using the URLconf defined in `authshopping.urls`, Django tried these URL patterns, in this order:

1. `login/`
2. `refresh/`
3. `user/`
4. `user/<int:pk>/`
5. `tourist_package/`
6. `tourist_package/<int:pk>`
7. `shoppinghistory/`
8. `shoppinghistory/<int:pk>`
9. `shoppinghistory/user/<int:pk>`

The empty path didn't match any of these.