

- Kullanıcılar sisteme kayıt ve login olabilmelidir.

## Kullanıcı kayıt

The screenshot shows a REST client interface with a POST request to `http://localhost:49600/users`. The request body is a JSON object with the following fields: `name`, `surname`, `password`, `email`, `phoneNumber`, and `type`. The response status is 201 Created, and the response body is a JSON object with the following fields: `id`, `name`, `surname`, `email`, and `type`.

```
POST http://localhost:49600/users
```

```
{  "name": "ahmet",  "surname": "ahmet",  "password": "123456",  "email": "sympathy@gmail.com",  "phoneNumber": "5555555555",  "type": "ADMIN"}
```

Status: 201 Created Time: 51 ms Size: 256 B

```
{  "id": 653,  "name": "ahmet",  "surname": "ahmet",  "email": "sympathy@gmail.com",  "type": "ADMIN"}
```

## Kullanıcı login

The screenshot shows a REST client interface with a POST request to `http://localhost:49600/users/login`. The request body is a JSON object with the following fields: `email` and `password`. The response status is 200 OK, and the response body is a plain text message: "Email veya şifre yanlış."

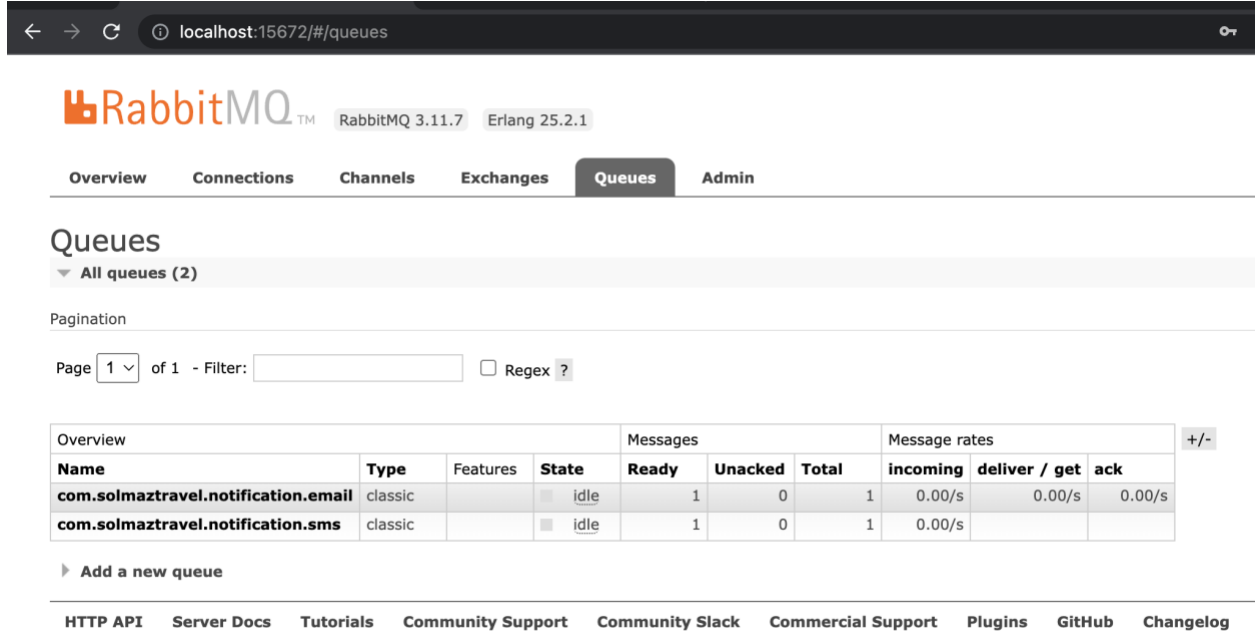
```
POST http://localhost:49600/users/login
```

```
{  "email": "s@gmail.com",  "password": "123"}
```

Status: 200 OK Time: 124 ms Size: 191 B

```
Email veya şifre yanlış.
```

- Kullanıcı kayıt işleminden sonra mail gönderilmelidir.



RabbitMQ 3.11.7 Erlang 25.2.1

Overview Connections Channels Exchanges **Queues** Admin

## Queues

▼ All queues (2)

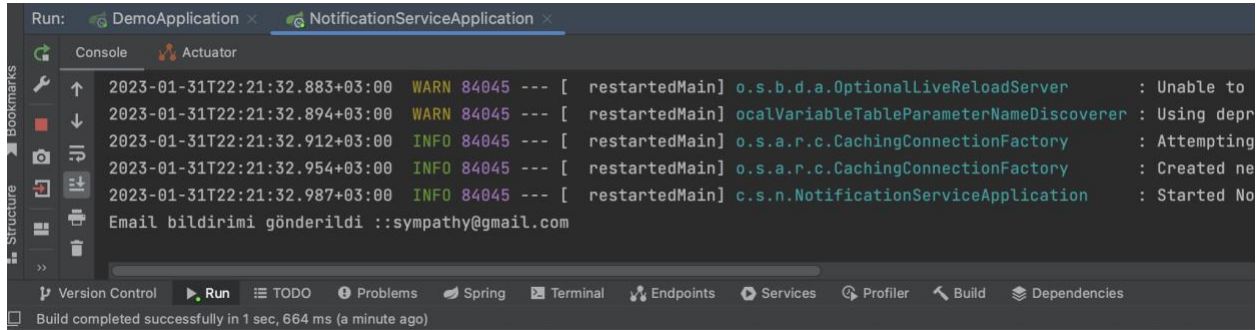
Pagination

Page 1 of 1 - Filter:  ☐ Regex ?

Overview				Messages			Message rates			+/-
Name	Type	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack	
com.solmaztravel.notification.email	classic		idle	1	0	1	0.00/s	0.00/s	0.00/s	
com.solmaztravel.notification.sms	classic		idle	1	0	1	0.00/s			

► Add a new queue

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```
Run: DemoApplication x NotificationServiceApplication x
Console
2023-01-31T22:21:32.883+03:00 WARN 84045 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Unable to
2023-01-31T22:21:32.894+03:00 WARN 84045 --- [ restartedMain] ocalVariableTableParameterNameDiscoverer : Using depr
2023-01-31T22:21:32.912+03:00 INFO 84045 --- [ restartedMain] o.s.a.r.c.CachingConnectionFactory : Attempting
2023-01-31T22:21:32.954+03:00 INFO 84045 --- [ restartedMain] o.s.a.r.c.CachingConnectionFactory : Created ne
2023-01-31T22:21:32.987+03:00 INFO 84045 --- [ restartedMain] c.s.n.NotificationServiceApplication : Started No
Email bildirimi gönderildi ::sympathy@gmail.com
Build completed successfully in 1 sec, 664 ms (a minute ago)
```

- Kullanıcı şifresi istediğiniz bir **hashing** algoritmasıyla database kaydedilmelidir.

İlgili hashing sınıfı oluşturuldu ve şifrelerin hashli şekilde eklenmesi sağlandı.

The screenshot shows the pgAdmin 4 interface. On the left, the 'Catalogs' tree is expanded to 'Schemas (1)' > 'public'. The 'Tables (5)' folder is selected, and the 'users' table is highlighted. The main pane shows a SQL query:

```
1 SELECT * FROM public.users
2 ORDER BY id ASC
```

The 'Data Output' tab displays the results of the query. The table has 5 columns: id, create\_date, email, name, and password. The results show 5 rows of data.

id	create_date	email	name	password
34	2023-01-31 22:55:09.708242	s@gmail.com	[null]	c344789ad7b4601b7f99dd83fbeb0766adb828f99b5a85ab871a44aacf1a27591b
35	2023-01-31 22:55:10.533588	s@gmail.com	[null]	c344789ad7b4601b7f99dd83fbeb0766adb828f99b5a85ab871a44aacf1a27591b
36	2023-01-31 22:55:11.288285	s@gmail.com	[null]	c344789ad7b4601b7f99dd83fbeb0766adb828f99b5a85ab871a44aacf1a27591b
37	2023-01-31 22:55:12.08502	s@gmail.com	[null]	c344789ad7b4601b7f99dd83fbeb0766adb828f99b5a85ab871a44aacf1a27591b
38	2023-01-31 22:55:47.853676	s@gmail.com	[null]	c344789ad7b4601b7f99dd83fbeb0766adb828f99b5a85ab871a44aacf1a27591b

Total rows: 38 of 38 Query complete 00:00:00.807 Ln 1, Col 1

Admin kullanıcı yeni sefer ekleyebilir, iptal edebilir, toplam bilet satışını, bu satıştan elde edilen toplam ücreti görebilir.

Yeni sefer ekleme:

The screenshot shows a REST client interface with a POST request to `http://localhost:61015/trips`. The request body is a JSON object with the following fields:

```
{  "userId": "2",  "departure": "istanbul",  "destination": "trabzon",  "vehicleType": "PLANE"}
```

The response status is 201 Created, with a time of 344 ms and a size of 379 B. The response body is a JSON object with the following fields:

```
{  "userId": 2,  "departure": "istanbul",  "destination": "trabzon",  "vehicleType": "PLANE",  "passengerCapacity": 189,  "tripDate": "2023-01-31T20:13:30.523321",  "createDate": "2023-01-31T20:13:30.5233",  "orderList": null,  "id": 52}
```

Sefer silme:

POST http://localhost:64816 DEL http://localhost:61015/t + ... No Environment

http://localhost:61015/trips Save

DELETE http://localhost:61015/trips Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   ... "userId": 2,
3   ... "departure": "istanbul",
4   ... "destination": "trabzon",
5   ... "vehicleType": "PLANE",
6   ... "passengerCapacity": 189,
7   ... "tripDate": "2023-01-31T20:13:30.523321",
8   ... "createDate": "2023-01-31T20:13:30.5233",
9   ... "orderList": null,
10  "id": 52
11 }
```

Body Cookies Headers (4) Test Results Status: 200 OK Time: 131 ms Size: 123 B Save Response

Pretty Raw Preview Visualize Text

1

Sefere ait toplam bilet satışı:

POST http://localhost:64816 GET http://localhost:61015/ + ... No Environment

http://localhost:61015/trips/ticketsales Save

GET http://localhost:61015/trips/ticketsales Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   ... "userId": 2,
3   ... "departure": "istanbul",
4   ... "destination": "trabzon",
5   ... "vehicleType": "PLANE",
6   ... "passengerCapacity": 189,
7   ... "tripDate": "2023-01-31T20:17:22.26803",
8   ... "createDate": "2023-01-31T20:17:22.267135",
9   ... "orderList": null,
10  "id": 53
11 }
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 42 ms Size: 165 B Save Response

Pretty Raw Preview Visualize JSON

1 0

## Seferden ele edilen gelir:

The screenshot shows a REST client interface with the following details:

- Request:** GET `http://localhost:61015/trips/revenue`
- Response Status:** 200 OK, Time: 126 ms, Size: 167 B
- Response Body (JSON):**

```
{  "userId": 2,  "departure": "istanbul",  "destination": "trabzon",  "vehicleType": "PLANE",  "passengerCapacity": 189,  "tripDate": "2023-01-31T20:17:22.26803",  "createDate": "2023-01-31T20:17:22.267135",  "orderList": null,  "id": 53}
```

- Kullanıcılar şehir bilgisi, taşıt türü(uçak & otobüs) veya tarih bilgisi ile tüm seferleri arayabilmelidir.

Şehir bilgisine göre arama:

The screenshot shows a REST client interface with a GET request to `http://localhost:63972/trips/cities`. The response is a JSON array with two objects. The first object has `"passengerCapacity": null` and `"tripDate": null`. The second object has `"passengerCapacity": null` and `"tripDate": "2000-10-31T02:00:00"`.

```
1 {
2   "userId": 2,
3   "departure": "istanbul",
4   "destination": "ankara",
5   "vehicleType": "PLANE",
6   "passengerCapacity": 189,
7   "tripDate": null,
8   "createDate": null,
9   "orderList": [],
10  "id": 1
11 },
12 {
13   "userId": 2,
14   "departure": "istanbul",
15   "destination": "ankara",
16   "vehicleType": "PLANE",
17   "passengerCapacity": null,
18   "tripDate": "2000-10-31T02:00:00",
19   "createDate": null,
20   "orderList": []
21 }
```

## Taşıt türüne göre arama:

POST http://localhost:64816 GET http://localhost:49412/ No Environment

http://localhost:49412/trips/vehicletype Save

GET http://localhost:49412/trips/vehicletype Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "userId": 2,
3   "departure": "istanbul",
4   "destination": "ankara",
5   "vehicleType": "PLANE",
6   "passengerCapacity": 189,
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 336 ms Size: 1.72 KB Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "userId": 2,
4     "departure": "istanbul",
5     "destination": "ankara",
6     "vehicleType": "PLANE",
7     "passengerCapacity": null,
8     "tripDate": null,
9     "createDate": null,
10    "orderList": [],
11    "id": 1
12  },
13  {
14    "userId": 2,
15    "departure": "istanbul",
16    "destination": "ankara",
17    "vehicleType": "PLANE",
18    "passengerCapacity": null,
19    "tripDate": "2000-10-31T02:00:00",
20    "createDate": null,
21    "orderList": []
```



## Tarihe göre arama:

POST http://localhost:64816 GET http://localhost:50655, No Environment

http://localhost:50655/trips/datesearch Save

GET http://localhost:50655/trips/datesearch Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "userId": 2,
3   "departure": "istanbul",
4   "destination": "ankara",
5   "vehicleType": "PLANE",
6   "passengerCapacity": 189,
7   "tripDate": "2023-01-31T20:17:22.26803",
8 }
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 270 ms Size: 375 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "userId": 2,
3   "departure": "istanbul",
4   "destination": "trabzon",
5   "vehicleType": "PLANE",
6   "passengerCapacity": 189,
7   "tripDate": "2023-01-31T20:17:22.26803",
8   "createDate": "2023-01-31T20:17:22.267135",
9   "orderList": [],
10  "id": 53
11 }
12
13
```

- Bireysel kullanıcı aynı sefer için en fazla 5 bilet alabilir.
- Bireysel kullanıcı tek bir siparişte en fazla 2 erkek yolcu için bilet alabilir.
- Kurumsal kullanıcı aynı sefer için en fazla 20 bilet alabilir.

Yukarıdaki isterleri sağlayacak olan ilgili method “OrderService” içerisinde tanımlandı.

```
private void validateTicketNumbers(Order order){  
  
    if (UserType.INDIVIDUAL.equals(userService.getById(order.getUserId()).getType())) {  
        if(MAXIMUM_NUMBER_OF_TICKETS_OF_INDIVIDUAL_USERS==order.getNumberOfTotalPassengers()){  
            throw new SolmazTravelException("individual.user.ticket.max.size");  
        }  
        if(MAXIMUM_NUMBER_OF_MALE_TICKETS_OF_CORPORATE_USERS==order.getNumberOfMalePassengers()){  
            throw new SolmazTravelException("individual.user.male.ticket.max.size");  
        }  
    }  
  
    if (UserType.CORPORATE.equals(userService.getById(order.getUserId()).getType())) {  
        if(MAXIMUM_NUMBER_OF_TICKETS_OF_CORPORATE_USERS==order.getNumberOfTotalPassengers()){  
            throw new SolmazTravelException("corporate.user.ticket.max.size");  
        }  
    }  
}
```

- Satın alma işlemi başarılı ise işlem tamamlanmalı ve asenkron olarak bilet detayları kullanıcının telefona numarasına sms gönderilmeli.

Order oluşturulurken ödeme servisi ile senkron iletişim için paymet service feign client'ı tanımlandı. Maalesef post işlemi sonrasında sürekli feign client configrasyonu ile alakalı bir hata aldığım için mecburen satın alma sırasında ister olarak belirtilen senkron ödeme işlemini devre dışı bırakmak durumunda kaldım.

The screenshot shows a REST client interface with a POST request to `http://localhost:61658/orders`. The request body is a JSON object with the following fields:

```
1 {
2   "userId": "2",
3   "tripId": "2",
4   "numberOfFemalePassengers": "2",
5   "numberOfMalePassengers": "2",
6   "numberOfTotalPassengers": "4"
7 }
```

The response status is 201 Created, with a time of 389 ms and a size of 307 B. The response body is a JSON object with the following fields:

```
1 {
2   "id": 1,
3   "userId": 2,
4   "tripId": 2,
5   "numberOfFemalePassengers": 2,
6   "numberOfMalePassengers": 2,
7   "numberOfTotalPassengers": 4,
8   "user": null,
9   "trip": null
10 }
```

SMS notification için notification servis oluşturuldu. İki servis arasındaki iletişim asenkron olarak RabbitMQ üzerinden sağlandı.

localhost:15672/#/queues

**RabbitMQ**™ RabbitMQ 3.11.7 Erlang 25.2.1

Overview Connections Channels Exchanges **Queues** Admin

## Queues

▼ All queues (2)

Pagination

Page 1 of 1 - Filter:  ☐ Regex ?

Overview				Messages			Message rates			+/-
Name	Type	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack	
com.solmaztravel.notification.email	classic		idle	1	0	1	0.00/s	0.00/s	0.00/s	
com.solmaztravel.notification.sms	classic		idle	1	0	1	0.00/s			

► Add a new queue

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```
Run: DemoApplication x NotificationServiceApplication x
Console
2023-01-31T22:21:32.912+03:00 INFO 84045 --- [ restartedMain] o.s.a.r.c.CachingConnectionFactory : Attempting to
2023-01-31T22:21:32.954+03:00 INFO 84045 --- [ restartedMain] o.s.a.r.c.CachingConnectionFactory : Created new co
2023-01-31T22:21:32.987+03:00 INFO 84045 --- [ restartedMain] c.s.n.NotificationServiceApplication : Started Notif:
Email bildirimi gönderildi ::sympathy@gmail.com
Email bildirimi gönderildi ::s@gmail.com
Email bildirimi gönderildi ::s@gmail.com
Sms gönderildi,Order{id=null, userId=2, numberOfFemalePassengers=2, numberOfMalePassengers=2, numberOfTotalPassengers=4}
Build completed successfully in 1 sec, 664 ms (20 minutes ago)
```

- Kullanıcılar aldığı biletleri görebilmelidir.

The screenshot shows a REST client interface with a GET request to `http://localhost:56848/orders`. The request body is a JSON object with the following fields:

```
1 {
2   "id": 108,
3   "userId": 2,
4   "tripId": 2,
5   "numberOfFemalePassengers": 2,
6   "numberOfMalePassengers": 2,
7   "numberOfTotalPassengers": 4,
8   "user": null,
9   "trip": null
10 }
```

The response status is 201 Created, with a time of 25 ms and a size of 5.27 KB. The response body is a JSON array containing one object:

```
1 [
2   {
3     "id": 1,
4     "userId": 2,
5     "tripId": 2,
6     "numberOfFemalePassengers": 2,
7     "numberOfMalePassengers": 2,
8     "numberOfTotalPassengers": 4,
9     "user": {
10      "id": 2,
11      "name": "ahmet",
12      "surname": "ahmet",
13      "password": "123456",
14      "email": null,
15      "phoneNumber": null,
16      "type": "ADMIN",
```