Stripe Demo using Javascript Promises

Team Name: Errors-as-a-Service

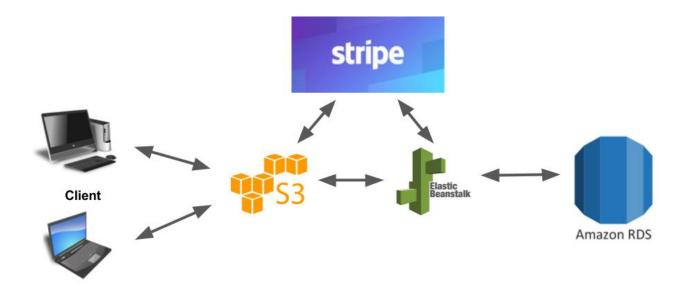
Team Members

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URLs

- 1. **S3 frontend**: http://s3-us-west-2.amazonaws.com/stripe6998/index.html
- 2. Elastic Beanstalk (API URL): http://stripedeploy.pmi6pbp3mg.us-west-2.elasticbeanstalk.com/api/

Architecture



Architecture - Stripe Demo

Tech Stack

- 1. Python (Django REST Framework)
- 2. HTML5, CSS, Javascript
- 3. jQuery, Bootstrap
- 4. MySQL (Storing Hashed passwords with Salt)

Deployment

- 1. Front end static files hosted on S3 bucket
- 2. Database hosted on Amazon RDS
- 3. Backend server hosted on Elastic Beanstalk (Load Balancer + EC2 instance)

Communication with the Stripe Service

Client Side

Stripe.js was used to integrate payment popup on client side'

Server Side

Server end uses the Charge API to communicate with the Stripe service and store the order **meta data** on Stripe and the order status in the database

API endpoints

Note: Calls authenticated by the token in case of invalid / expired token return 403.

Auth service

POST api/api-token-auth/

Request parameters

```
{
    "username": "dummy@user.com",
    "password": "password"
}
```

Response: 200 Success

```
{"token":"JWT_TOKEN_HERE"}
```

Response: 400 Failure

```
{"detail": "authorization failure"}
```

SignUp service

POST api/signup/

Request parameters

```
parameters = {
    "first_name": "foo",
    "last_name": "bar",
    "email": "foobar@qmail.com",
```

```
"password": "password"
};

Response: 201 Success

{"success": true}

Response: 400 Failure

{
    "success": false,
    "error": "failure message here"
}
```

Fetch product catalog service

GET api/product/

Response: 200 Success

```
[
    "id": 1,
    "price": 100,
    "description": "Brooklyn Bridge",
    "url": "https://cl.staticflickr.com/1/728/31226388014_5558604d0f_k.jpg"
},
{
    "id": 2,
    "price": 150,
    "description": "Singapore Grand Prix",
    "url": "https://cl.staticflickr.com/6/5763/20977162524_c8931fe2d3_k.jpg"
}
```

Fetch orders of logged in user

GET api/order/

Response: 200 Success

```
[
    "id": 14,
    "user": 5,
    "orderdate": "2017-02-11T02:40:24.333429Z",
```

```
"paymentstatus": "PAID",
    "product": {
      "id": 1,
      "price": 100,
      "description": "Brooklyn Bridge",
      "url": "https://cl.staticflickr.com/1/728/31226388014 5558604d0f k.jpg"
   }
  },
   "id": 15,
   "user": 5,
    "orderdate": "2017-02-11T02:40:56.373584Z",
    "paymentstatus": "PAID",
    "product": {
      "id": 2,
      "price": 150,
      "description": "Singapore Grand Prix",
      "url": "https://cl.staticflickr.com/6/5763/20977162524_c8931fe2d3_k.jpg"
   }
 }
1
```

Submit order & stripe token to backend

POST api/order/

Request parameters

```
{
    "token": "STRIPE_CLIENT_TOKEN",
    "product": "PRODUCT_ID"
}
```

Response: 201 Success

```
{
   "success": true
}
```

Response: 400 Bad request: In case of missing parameters.

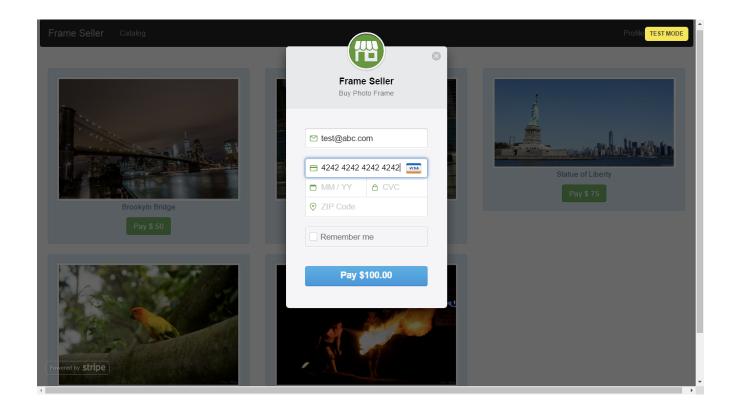
Screenshots

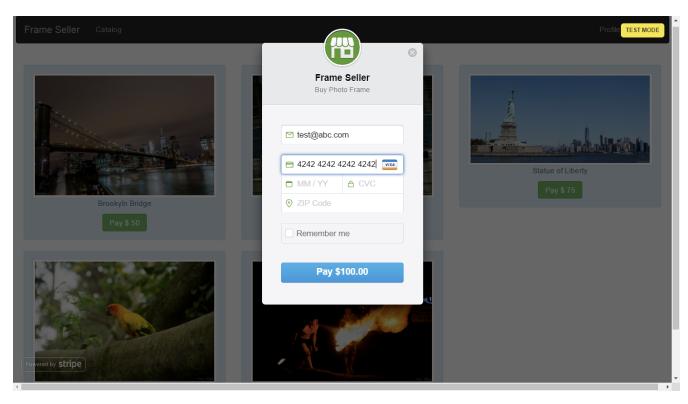
FrameSeller - Buy Amazing Photos!

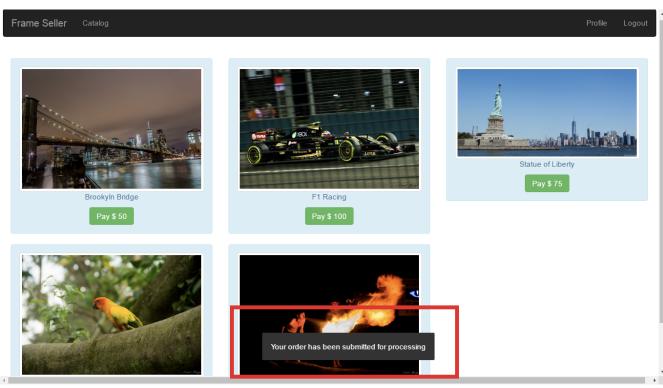
Buy amazing photos online!

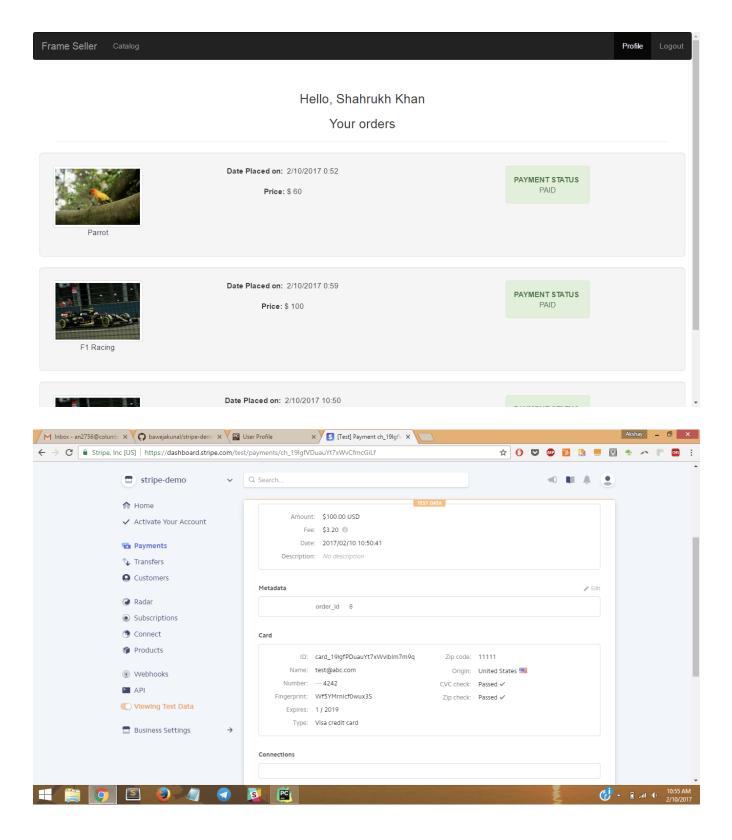
Existing User?	
Login	
Email:	
Password:	
Login	

New User?
SignUp
First Name:
Last Name:
Email:
Password:
Repeat Password:
Sign Up









Further Improvements

- 1. Use AngularJS in future assignments
- 2. As suggested by Prof. Donald Ferguson, segregate the microservices further into Order, Payment and User services.

