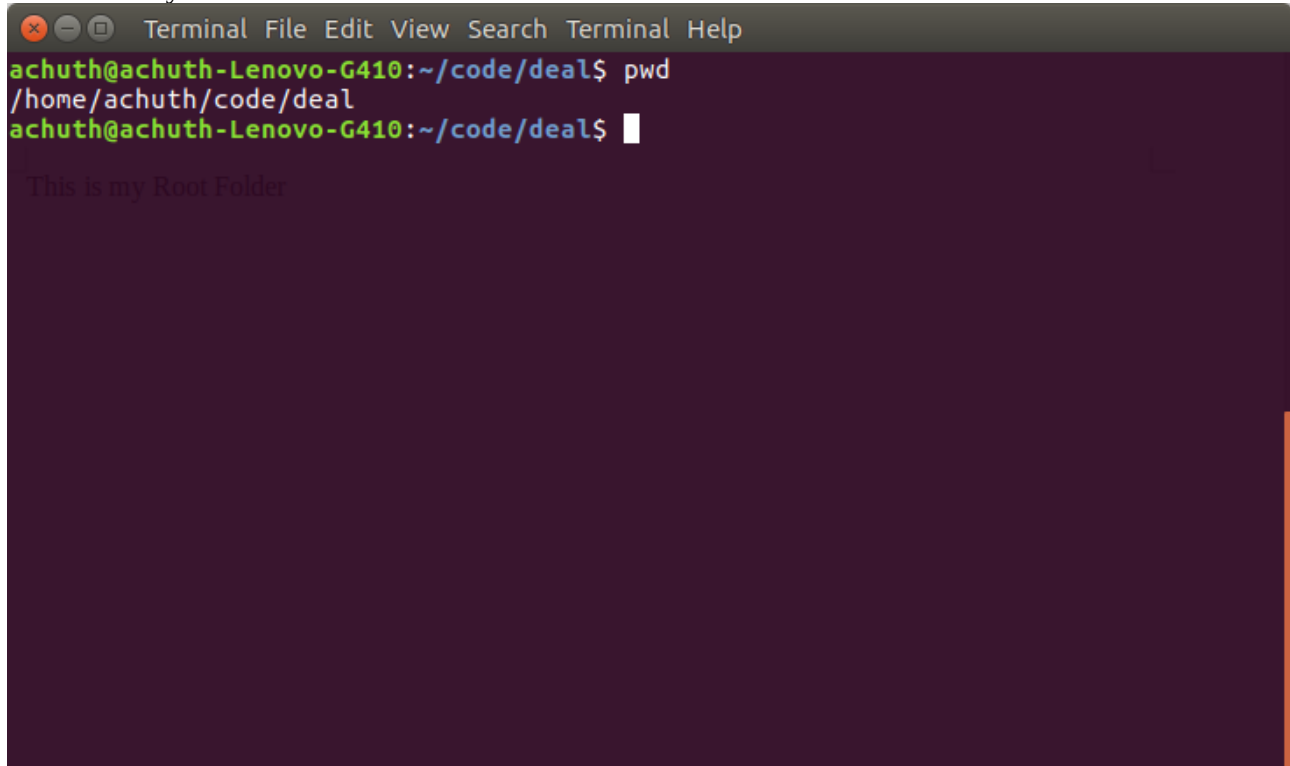


Before getting started:

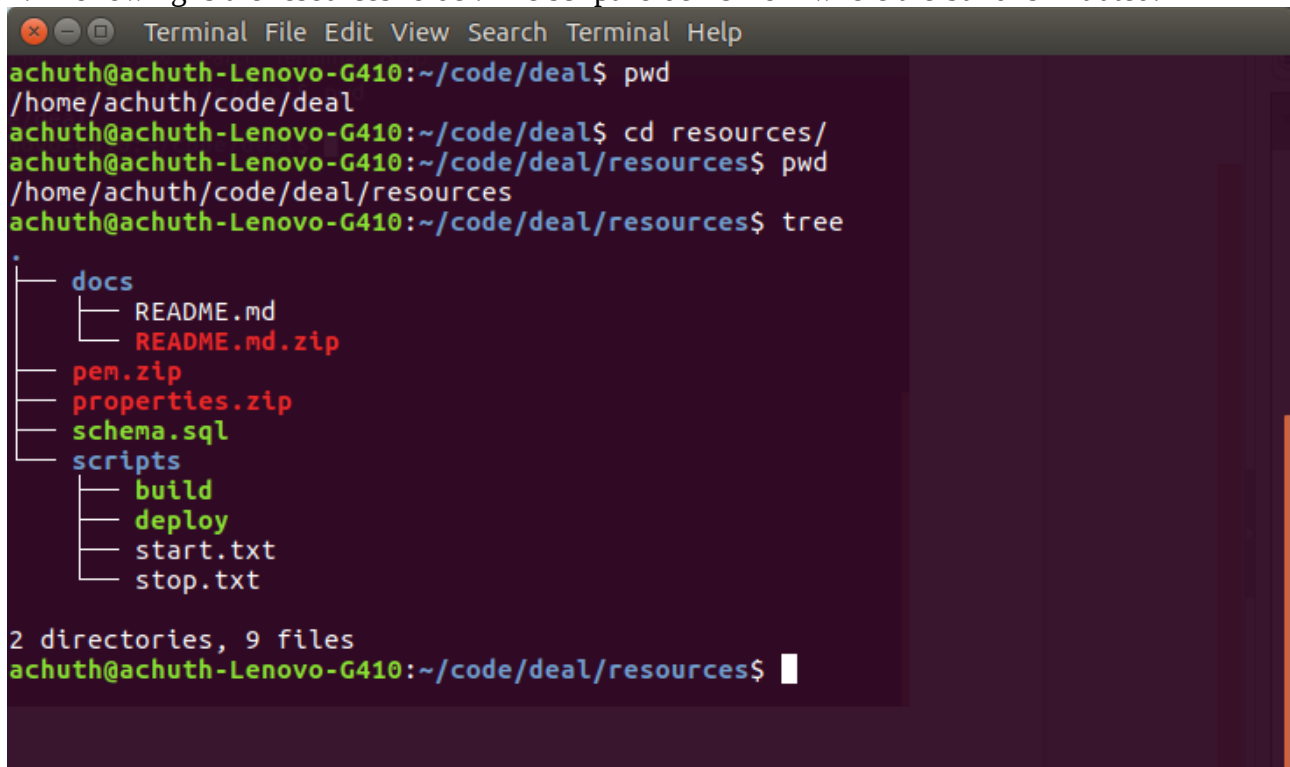
1. This is my Root Folder

A terminal window with a dark purple background and a menu bar at the top containing 'Terminal', 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The prompt is 'achuth@achuth-Lenovo-G410:~/code/deal\$'. The user enters 'pwd' and the output is '/home/achuth/code/deal'. The prompt changes to 'achuth@achuth-Lenovo-G410:~/code/deal\$'. Below the terminal output, the text 'This is my Root Folder' is displayed in a light purple font.

```
achuth@achuth-Lenovo-G410:~/code/deal$ pwd
/home/achuth/code/deal
achuth@achuth-Lenovo-G410:~/code/deal$
```

This is my Root Folder

2. Following is the resources folder. The script folder is from where the build is initiated:

A terminal window with a dark purple background and a menu bar at the top containing 'Terminal', 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The prompt is 'achuth@achuth-Lenovo-G410:~/code/deal\$'. The user enters 'pwd' and the output is '/home/achuth/code/deal'. The prompt changes to 'achuth@achuth-Lenovo-G410:~/code/deal\$'. The user enters 'cd resources/' and the prompt changes to 'achuth@achuth-Lenovo-G410:~/code/deal/resources\$'. The user enters 'pwd' and the output is '/home/achuth/code/deal/resources'. The prompt changes to 'achuth@achuth-Lenovo-G410:~/code/deal/resources\$'. The user enters 'tree' and the output is a tree structure showing the contents of the resources folder. Below the terminal output, the text '2 directories, 9 files' is displayed in a light purple font.

```
achuth@achuth-Lenovo-G410:~/code/deal$ pwd
/home/achuth/code/deal
achuth@achuth-Lenovo-G410:~/code/deal$ cd resources/
achuth@achuth-Lenovo-G410:~/code/deal/resources$ pwd
/home/achuth/code/deal/resources
achuth@achuth-Lenovo-G410:~/code/deal/resources$ tree
.
├── docs
│   ├── README.md
│   └── README.md.zip
├── pem.zip
├── properties.zip
├── schema.sql
└── scripts
    ├── build
    ├── deploy
    ├── start.txt
    └── stop.txt

2 directories, 9 files
achuth@achuth-Lenovo-G410:~/code/deal/resources$
```

Note: the zip files are password encrypted since it contains information such as passwords to use the mail servers and certificates to login into AWS for production .

3. Unzip the properties.zip for the build to pickup.

```
Terminal File Edit View Search Terminal Help
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources# ls
deal docs pem.zip properties.zip schema.sql scripts
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources# unzip properties.zip
Archive: properties.zip
  creating: properties/
[property.zip] properties/emailservice-prod.yml password:
  inflating: properties/emailservice-prod.yml
  inflating: properties/dealweb-prod.yml
  inflating: properties/dealservice-prod.yml
  inflating: properties/emailservice-local.yml
  inflating: properties/dealweb-local.yml
  inflating: properties/dealservice-local.yml
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources#
```

Building the application:

1. To initiate a local build/deploy do the following:

```
Terminal File Edit View Search Terminal Help
achuth@achuth-Lenovo-G410:~/code/deal/resources/scripts$ ls
build deploy start.txt stop.txt
achuth@achuth-Lenovo-G410:~/code/deal/resources/scripts$ ./build local
```

Prerequisites: Install mysql-server. Default password used is “admin123” and is included in the dealservice-local.yml. This can be changed as per need.

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```
Terminal File Edit View Search Terminal Help
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources# mysql --user="root" --password="admin123" < schema.sql
```

This will create the database objects such as schema, tables etc.

2. build will create a folder named deal:

```
Terminal File Edit View Search Terminal Help
.
├── deal
│   ├── dealservice.jar
│   ├── dealweb.jar
│   ├── emailservice.jar
│   ├── env.sh
│   ├── logs
│   ├── properties
│   │   ├── dealservice-local.yml
│   │   ├── dealweb-local.yml
│   │   └── emailservice-local.yml
│   ├── start
│   └── stop
├── pen.zip
├── properties
│   ├── dealservice-local.yml
│   ├── dealservice-prod.yml
│   ├── dealweb-local.yml
│   ├── dealweb-prod.yml
│   ├── emailservice-local.yml
│   └── emailservice-prod.yml
├── properties.zip
├── schema.sql
└── scripts
    ├── build
    ├── deploy
    ├── start.txt
    └── stop.txt

5 directories, 22 files
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources#
```

3. To start the application simply do the following:

```
Terminal File Edit View Search Terminal Help
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources# cd deal/
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources/deal# ls
dealservice.jar  emailservice.jar  logs          start
dealweb.jar      env.sh            properties    stop
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources/deal# ./start all
```

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4. Debugging/Checking logs

```
Terminal File Edit View Search Terminal Help
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources/deal/logs# ls -lrt
total 208
-rw-r--r-- 1 root root 19262 Jul 13 21:41 emailservice.log
-rw-r--r-- 1 root root 20936 Jul 13 21:41 emailservice-console.log
-rw-r--r-- 1 root root 20305 Jul 13 21:41 dealservice.log
-rw-r--r-- 1 root root 28057 Jul 13 21:41 dealservice-console.log
-rw-r--r-- 1 root root 32668 Jul 13 21:41 dealweb.log
-rw-r--r-- 1 root root 33959 Jul 13 21:41 dealweb-console.log
root@achuth-Lenovo-G410:/home/achuth/code/deal/resources/deal/logs#
```

Testing the application

1. landing page:

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/#/'. The page title is 'Deal'. The main content area is titled 'List of Products' and contains a form for requesting quotes. The form has two input fields for 'Name' and 'Email Id', both with placeholder text 'Please enter your name here' and 'Please enter your email id here' respectively. Below these fields is a text area for 'Purpose/Occasion:' with placeholder text 'Please describe the purpose/occasion here as accurate as you possible; This will help the store help you with what is most appropriate.' Below the text area is a section titled 'Following are the items I would require from your store:' which contains a table of products. The table has four columns: 'ID', 'Product Name', 'Comments', and 'Quote'. There are five rows of products. At the bottom right of the form are two buttons: 'Submit' and 'Reset Form'.

ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input type="checkbox"/>
5	Jacobs Thin	Rich in fibre biscuits	<input type="checkbox"/>

Validation

Deal

localhost:8080/#/

List of Products

1. & Email Id:

would like to have a quote of the best possible Deals from your stores for the Purpose/Occasion:

Please fill in this field.

Following are the items I would require from your store:

Products:	Comments:		
ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input type="checkbox"/>
5	Jacobs Thin	Rich in fibre biscuits	<input type="checkbox"/>

Deal

localhost:8080/#/

List of Products

1. & Email Id:

would like to have a quote of the best possible Deals from your stores for the Purpose/Occasion:

Please include an '@' in the email address. 'achuth' is missing an '@'.

Following are the items I would require from your store:

Products:	Comments:		
ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input type="checkbox"/>
5	Jacobs Thin	Rich in fibre biscuits	<input type="checkbox"/>

Deal

localhost:8080/#/

List of Products

1. & Email Id:

would like to have a quote of the best possible Deals from your stores for the Purpose/Occasion:

Please fill in this field.

Following are the items I would require from your store:

Products:	Comments:		
ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input type="checkbox"/>
5	Jacobs Thin	Rich in fibre biscuits	<input type="checkbox"/>

Deal

localhost:8080/#/

Please select the product you want best quote for

List of Products

1. & Email Id:

would like to have a quote of the best possible Deals from your stores for the Purpose/Occasion:

Following are the items I would require from your store:

Products:	Comments:		
ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input type="checkbox"/>
5	Jacobs Thin	Rich in fibre biscuits	<input type="checkbox"/>

Going to submit

Please select the product you want best quote for

List of Products

I, & Email Id:

would like to have a quote of the best possible Deals from your stores for the

Purpose/Occasion:

Following are the items I would require from your store:

Products:	Comments:		
ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input checked="" type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input checked="" type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input checked="" type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input checked="" type="checkbox"/>
5	Jacobs Thin	Rich in fibre biscuits	<input checked="" type="checkbox"/>

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email sending status: EMAIL_SEND_SUCCESS

List of Products

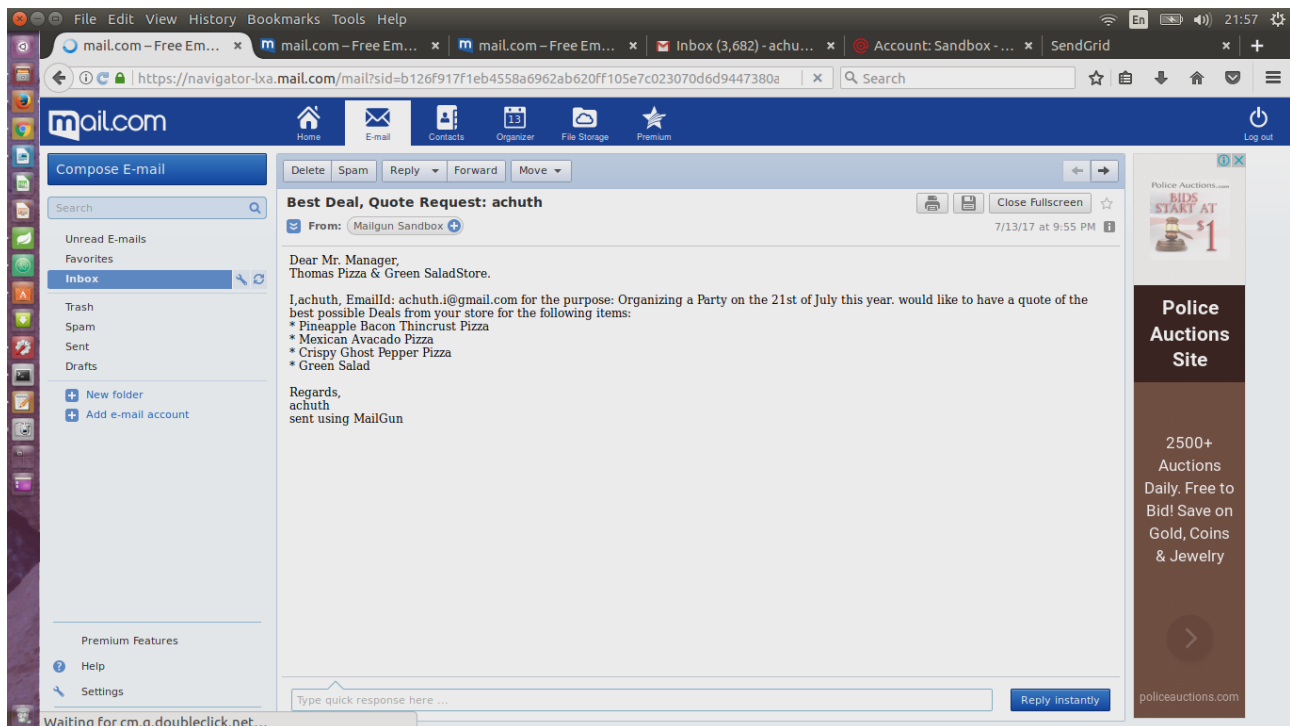
I, & Email Id:
would like to have a quote of the best possible Deals from your stores for the Purpose/Occasion:

Please describe the purpose/occasion here as accurate as you possible; This will help the store help you with what is most appropriate.

Following are the items I would require from your store:

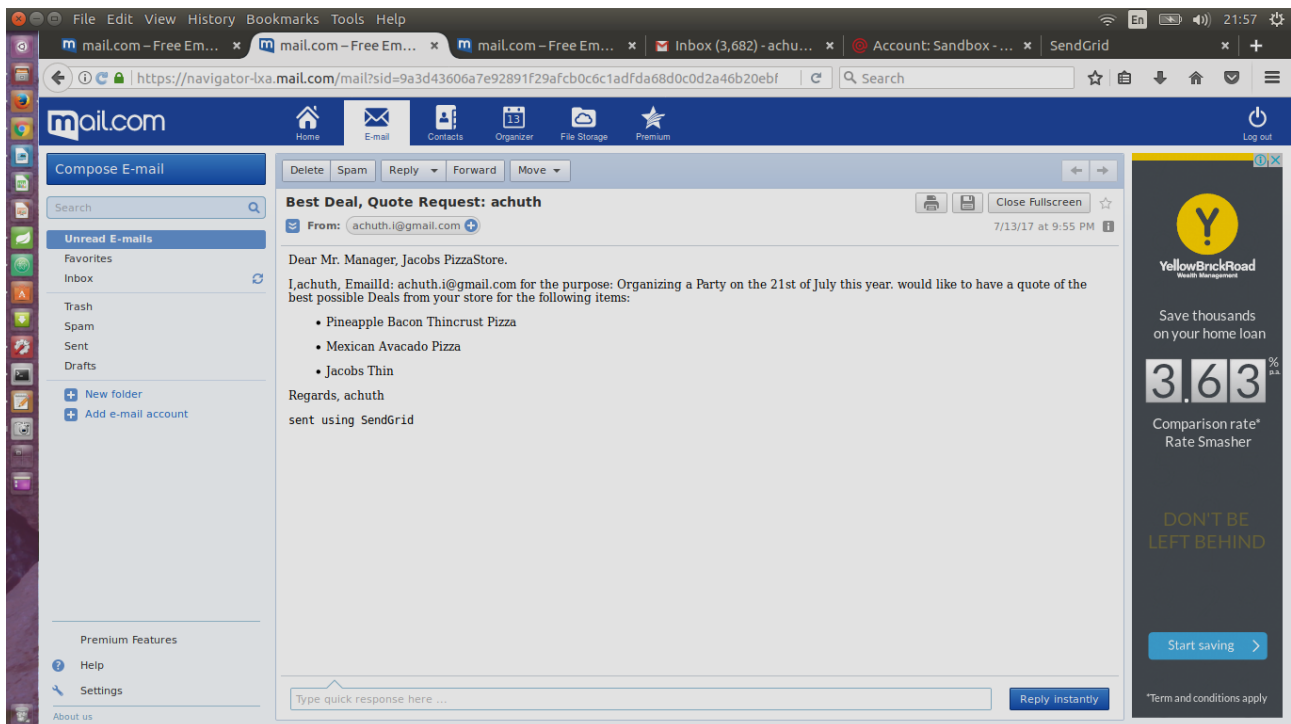
Products:	Comments:		
ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input type="checkbox"/>
5	Jacobs Thin	Rich in fibre biscuits	<input type="checkbox"/>

Emails to both the stores from MailGun and SendGrid(Fail over to Mail Gun). In our case Mailgun failed to send email to Jacobs since he is deliberately not registered with MailGun (where as thomas is) and the free tier of MailGun Mandates its recipients to register. We have not registered to simulate the fail over situation. Thus the email says sent by Mail Gun.

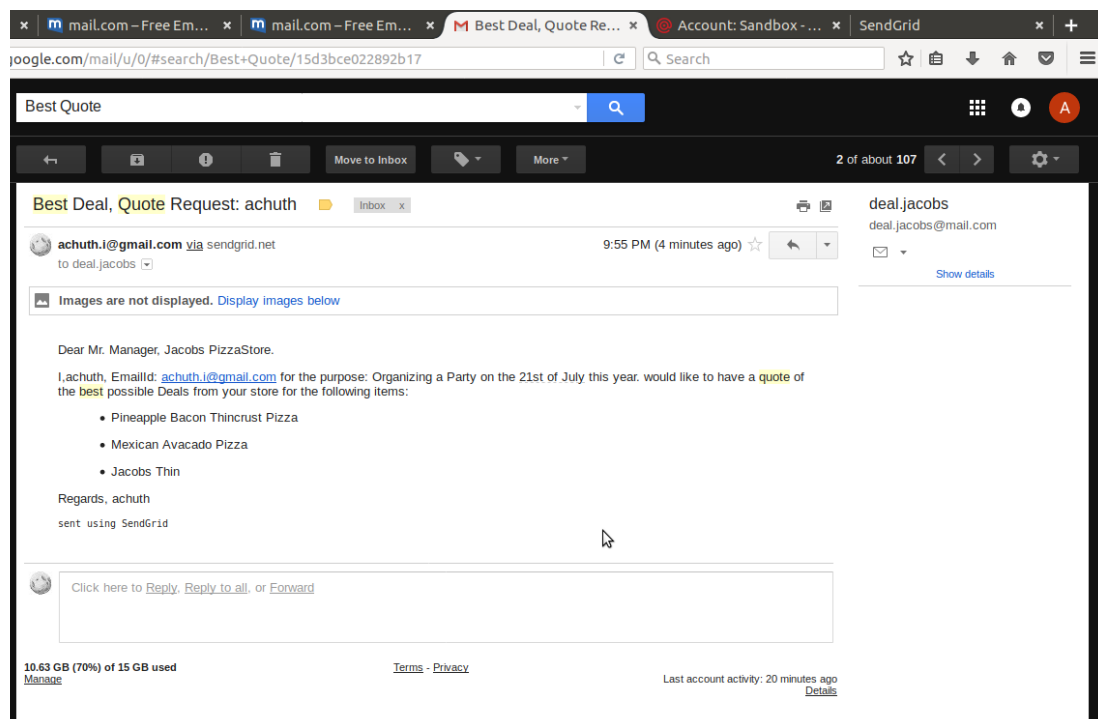


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Now for the email sent by SendGrid

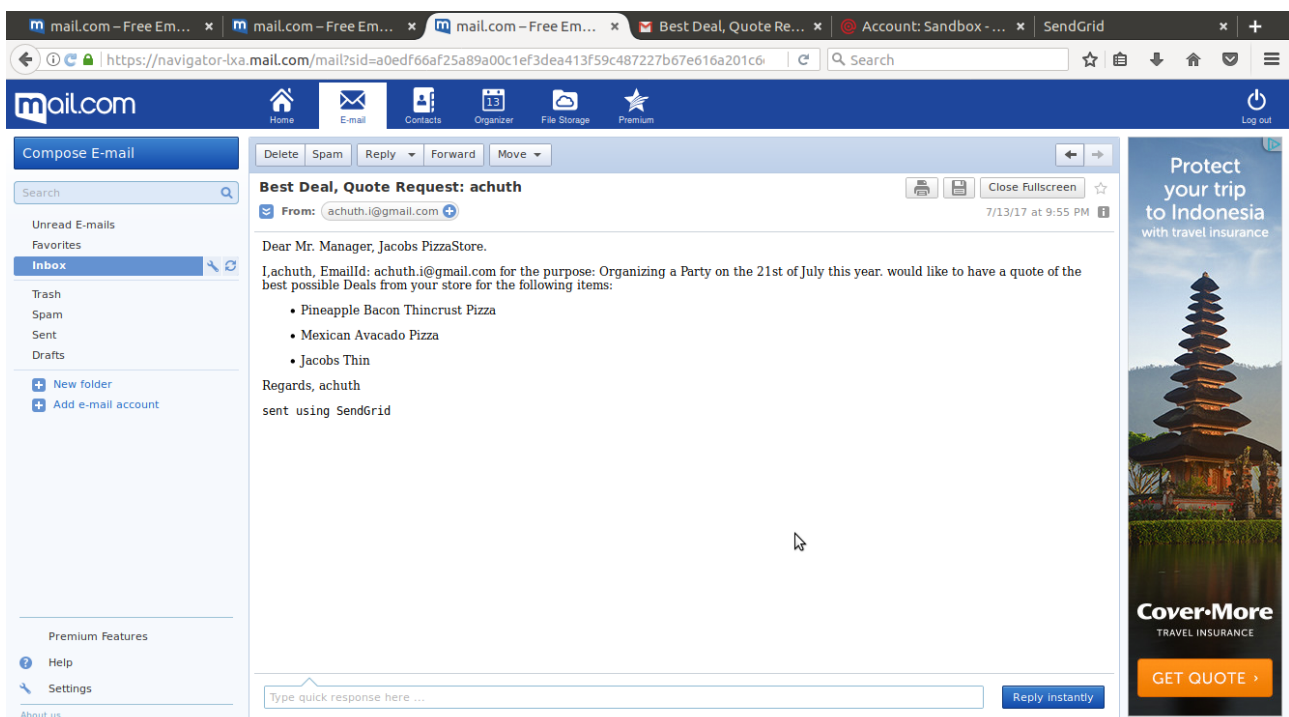
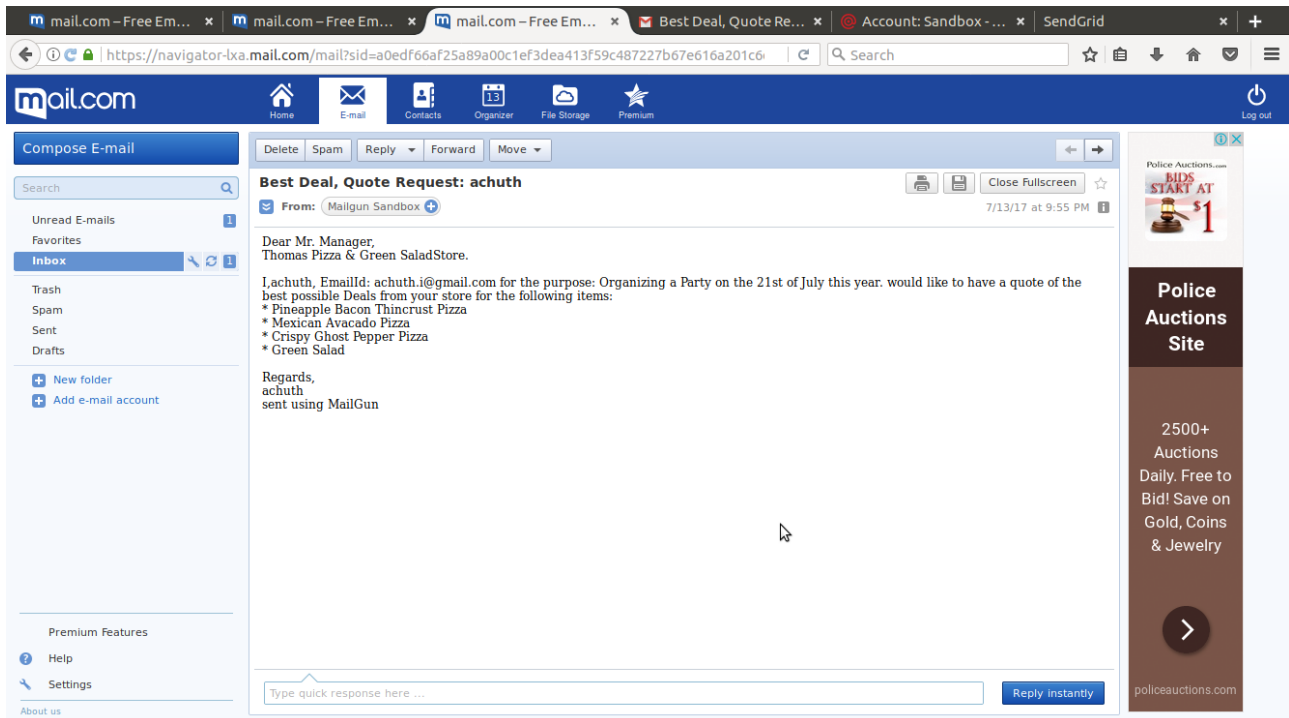


The Cc to the person who has requested the quote: in this case – achuth.i@gmail.com



The BCC to the Deal Admin

Deal (Developer Guide v1.0)



Production deployment: AWS EC2 instance

Deal (Developer Guide v1.0)

- Before submitting on production

List of Products

Name: t. achuth & Email Id: achuth.j@gmail.com

would like to have a quote of the best possible Deals from your stores for the Purpose/Occasion:

I need the following items for a party i am organizing on 1st August 2017.

Following are the items I would require from your store:

ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input checked="" type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input checked="" type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input checked="" type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input checked="" type="checkbox"/>
5	Jacobs Thin	Rich in fibre busculits	<input checked="" type="checkbox"/>

Submit Query Reset Form

Submitted request successfully.

email sending status: EMAIL_SEND_SUCCESS

List of Products

Name: Please enter your name here & Email Id: Please enter your email id here

would like to have a quote of the best possible Deals from your stores for the Purpose/Occasion:

Please describe the purpose/occasion here as accurate as you possible; This will help the store help you with what is most appropriate.

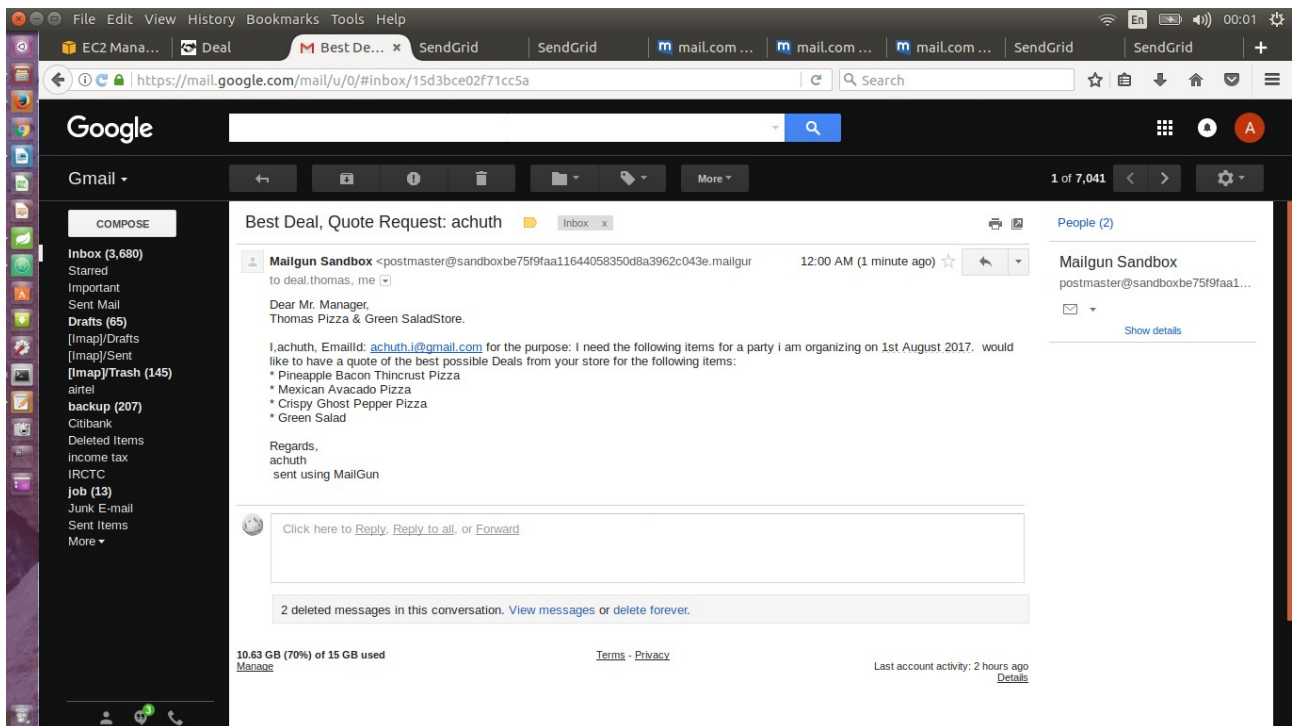
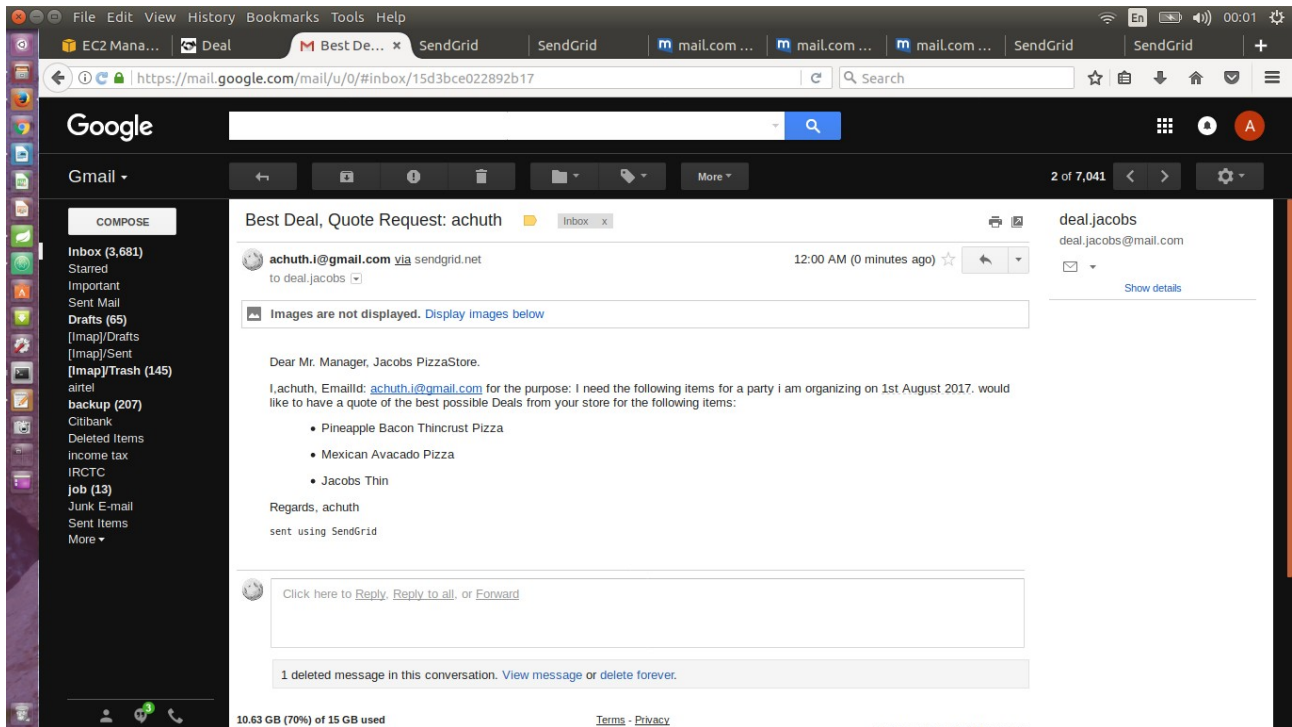
Following are the items I would require from your store:

ID	Product Name	Comments	Quote
1	Pineapple Bacon Thincrust Pizza	Crispy & Super Yummy	<input type="checkbox"/>
2	Mexican Avacado Pizza	Soft & Cheesy	<input type="checkbox"/>
3	Crispy Ghost Pepper Pizza	warning! no extra flakes even by mistake	<input type="checkbox"/>
4	Green Salad	Rich in fibre with the twist of sweetness	<input type="checkbox"/>
5	Jacobs Thin	Rich in fibre busculits	<input type="checkbox"/>

Submit Query Reset Form

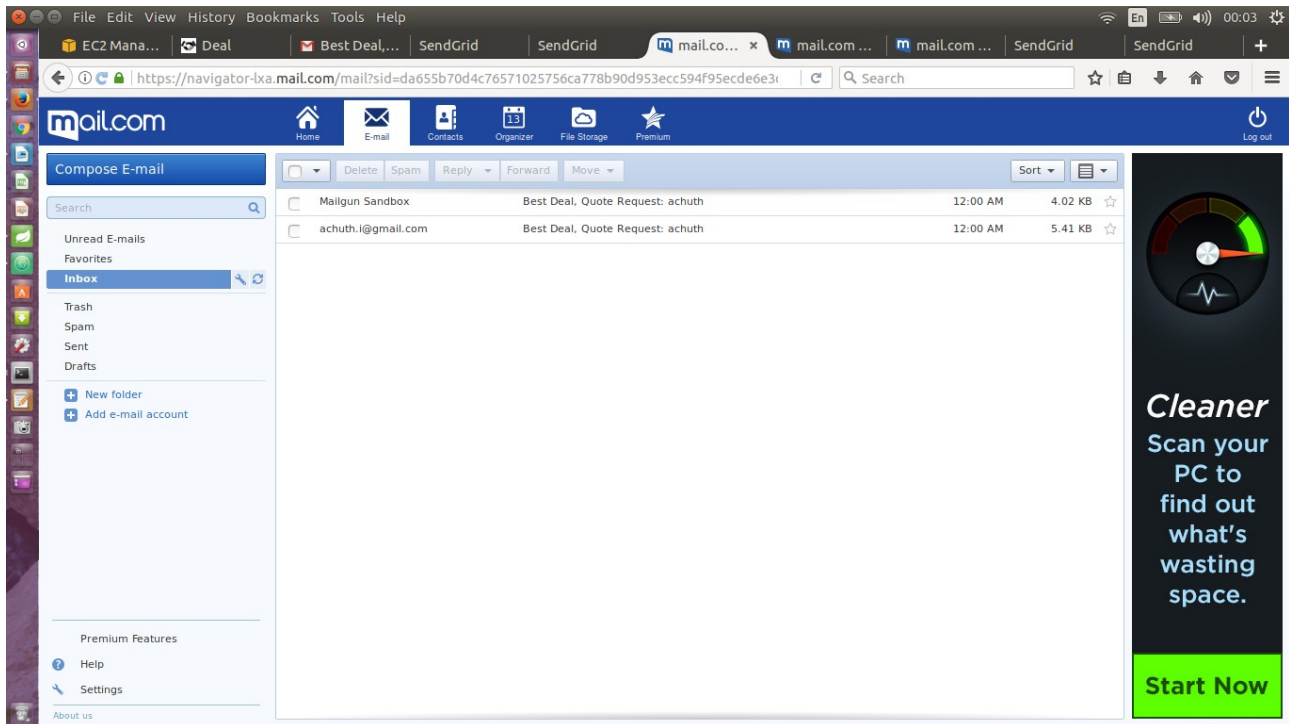
- CC Mails to the customer

Deal (Developer Guide v1.0)

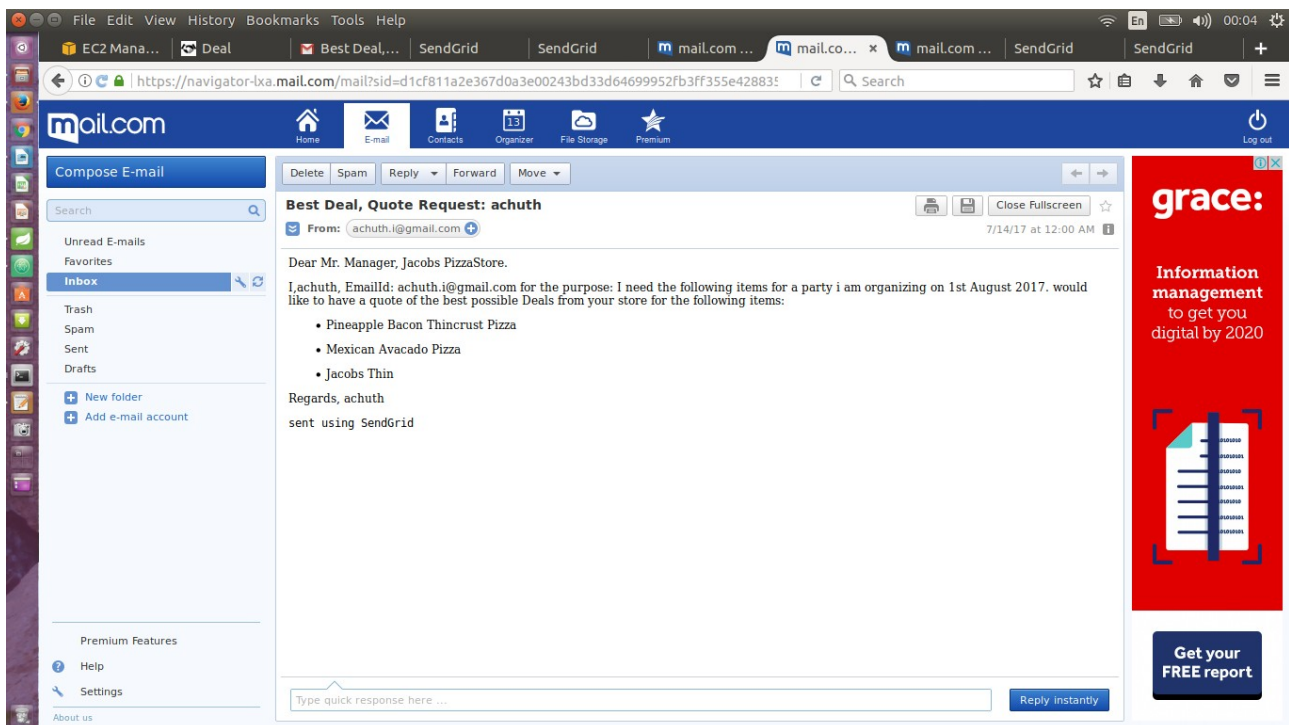


Bcc Mail to Deal Admin:

Deal (Developer Guide v1.0)

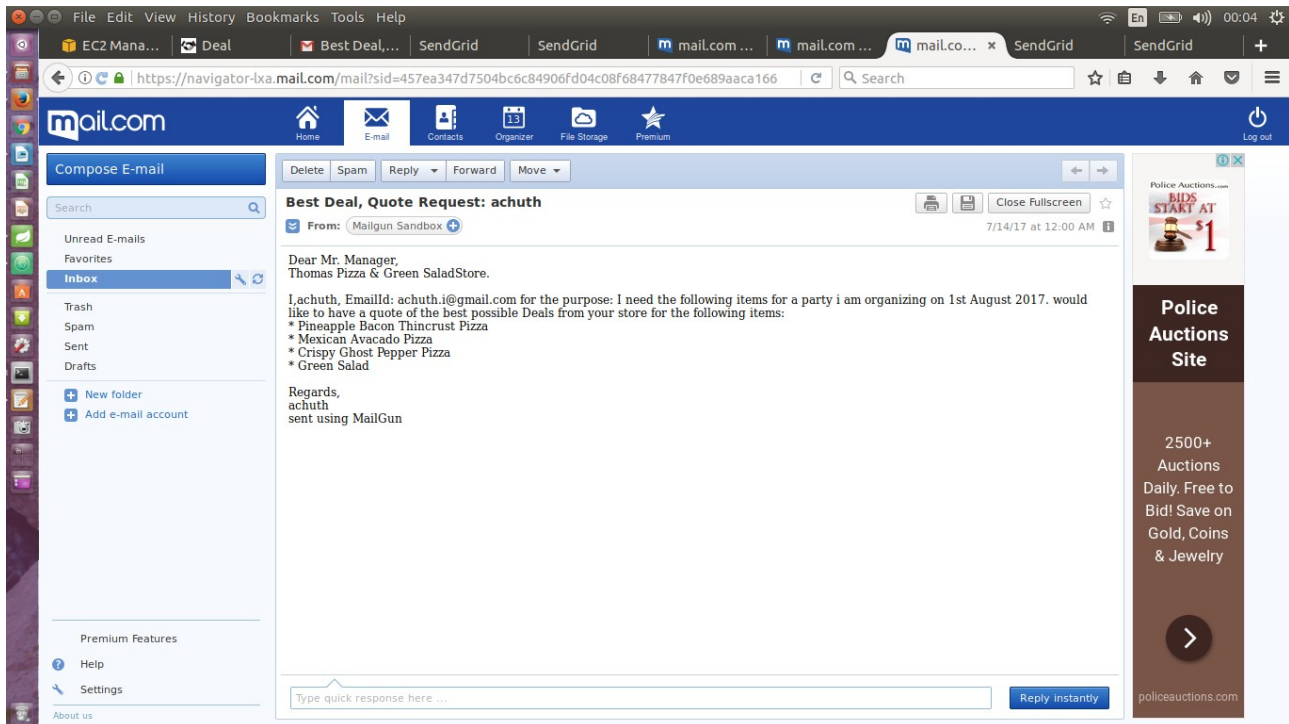


- Jacobs Store Email:



- Email to Thomas Store

Deal (Developer Guide v1.0)



Thankyou!