

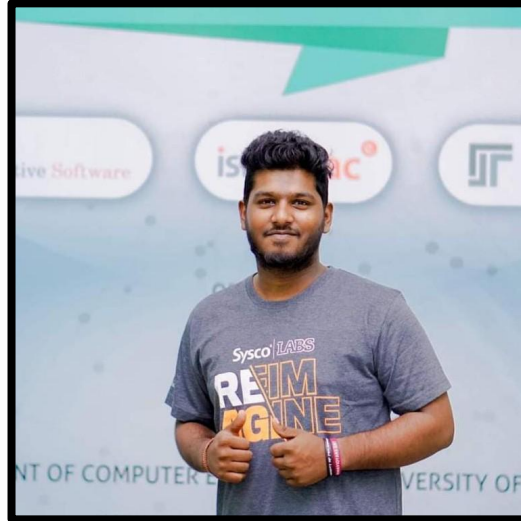
# Smart Vending Machine

Milestone 3

# Group 01



**Suppysamy Bragadeeshan**  
**E/16/055**



**Selvaratnam Girishikan**  
**E/16/115**



**Vettrivel Harikaran**  
**E/16/172**

# Problems

- Lack of 24 hrs Open Shops.
- MRP products sold for higher prices.
- Having a big space for a shop.
- Traditional vending Machine problems.


**TRADITIONAL VENDING**



IMPORTED CHINA MACHINE  
HIGH IMPORT COST  
TRADITIONAL CASH & COIN PAYMENT  
MANUAL CASH COLLECTION  
STANDARD MANUFACTURED


USER FRIENDLY	▲	▲	▲
SPEED	▲	▲	▲
COST SAVING	▲	▲	▲
DESIGN	▲	▲	▲

**E-WALLET VENDING**

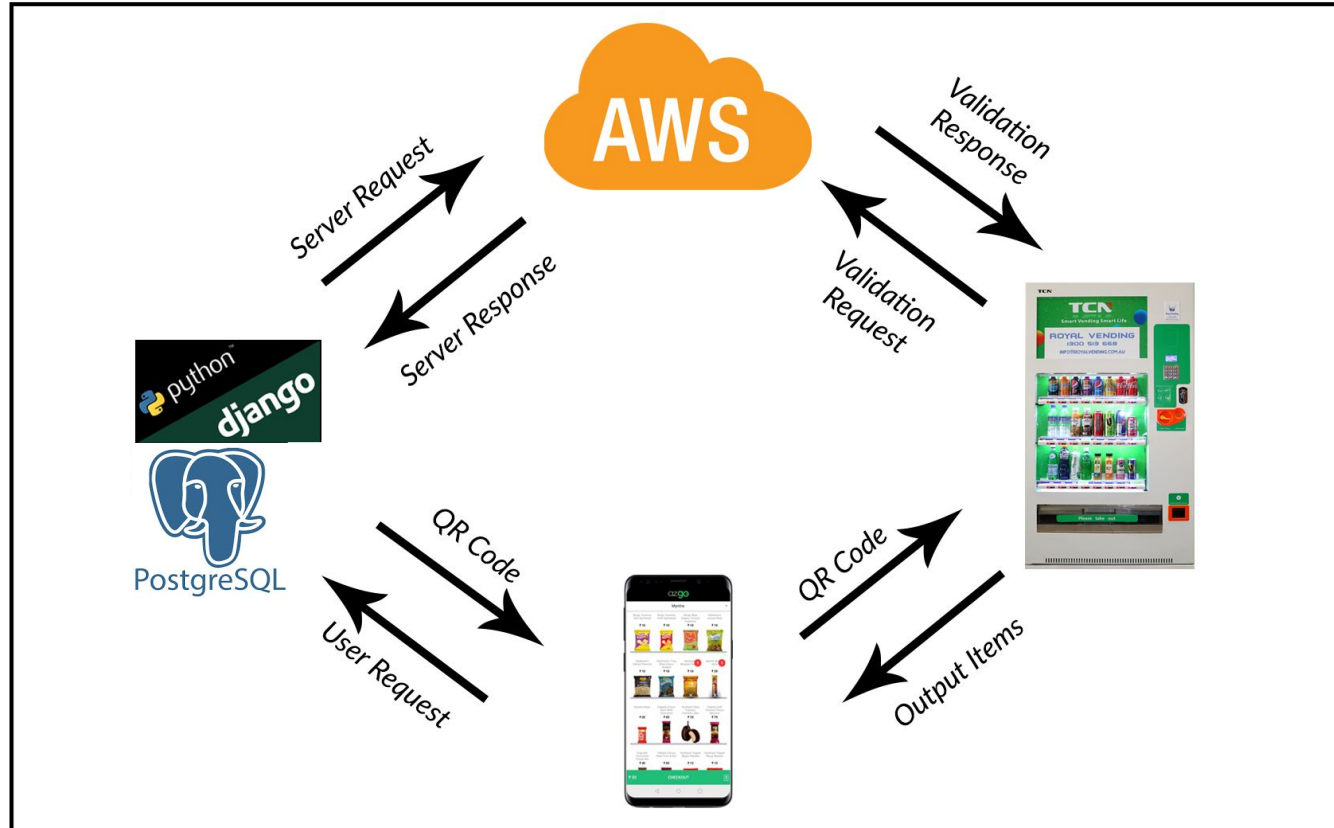


IMPORTED LOCAL ASSEMBLY  
LOWER COST OWNERSHIP  
SCAN TO PAY, GRAB TO GO  
ONLINE WITHDRAW PROFIT  
BRILLIANT MECHANICAL DESIGN

USER FRIENDLY	▲	▲	▲
SPEED	▲	▲	▲
COST SAVING	▲	▲	▲
DESIGN	▲	▲	▲

 **VECHNOLOGY**

# Solution Overview

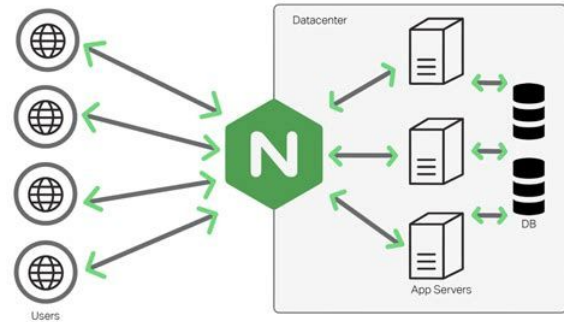


# Cloud Server

- AWS EC2 Instance NGINX Server
- Gunicorn wsgy server
- Database is PostgreSQL
- Database is on AmazonRDS

## Server

- Web Application Using Django
- Database is on PostgreSQL



# Security

- Role Based access Control ( `django.contrib.auth.decorators` )
- Hashed Passwords ( `django.contrib.auth.forms` )
- CSRF token is used to keep the Content safe.(Cross site request forgery)
- For Secured Payment transaction Paypal is used
- Ratelimit. ( `from ratelimit.decorators` )



**Django  
Security Check**

# Unit Testing

- URL unit Testing
- POST/GET Request unit Testing
- Form Validation Testing

```
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
.<HttpResponse status_code=200, "text/html; charset=utf-8">
.CART: {}
.CART: {}
..b'Invalid Data'
..b'Invalid Data' oooooooooo
..CART: {}
..I this 0
.....
Ran 22 tests in 0.318s

OK
Destroying test database for alias 'default'...
(harishbaana) harishbaana@harishbaana:~/backend/happyvending$ python manage.py test store/
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
.CART: {}
.CART: {}
..b'Invalid Data'
..b'Invalid Data' oooooooooo
..CART: {}
..I this 0
.....
Ran 15 tests in 0.252s

OK
Destroying test database for alias 'default'...
(harishbaana) harishbaana@harishbaana:~/backend/happyvending$ python manage.py test account/
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
.<HttpResponse status_code=200, "text/html; charset=utf-8">
.....
Ran 7 tests in 0.074s

OK
Destroying test database for alias 'default'...
(harishbaana) harishbaana@harishbaana:~/backend/happyvending$
```



Daily milk

[Add to Cart](#)[Buy](#)

\$20.0



Coca-Cola

[Add to Cart](#)[Buy](#)

\$25.0



pepsi

[Add to Cart](#)[Buy](#)

\$27.0



Snickers

[Add to Cart](#)[Buy](#)

\$15.0



Bottled Water

[Add to Cart](#)[Buy](#)

\$20.0



Red Bull

[Add to Cart](#)[Buy](#)

\$60.0



Q & A