In Class 03 – Report – Group 05

DB Schema

Created **discountList** table which holds the details of the products present in the discount.json file.

discountList(discount int, pname varchar , photo varchar ,price float, region varchar);

API

Created API using Node JS and Express JS. For storing data mysql database is used. Server receives the category name and sends back the list of products. Below are the urls used for the same.

URL - URL - http://52.42.214.119:3000/info

Grocery Product URL - http://52.42.214.119:3000/info?region=grocery

Screenshots

Fig 1 – Lifestyle category products list

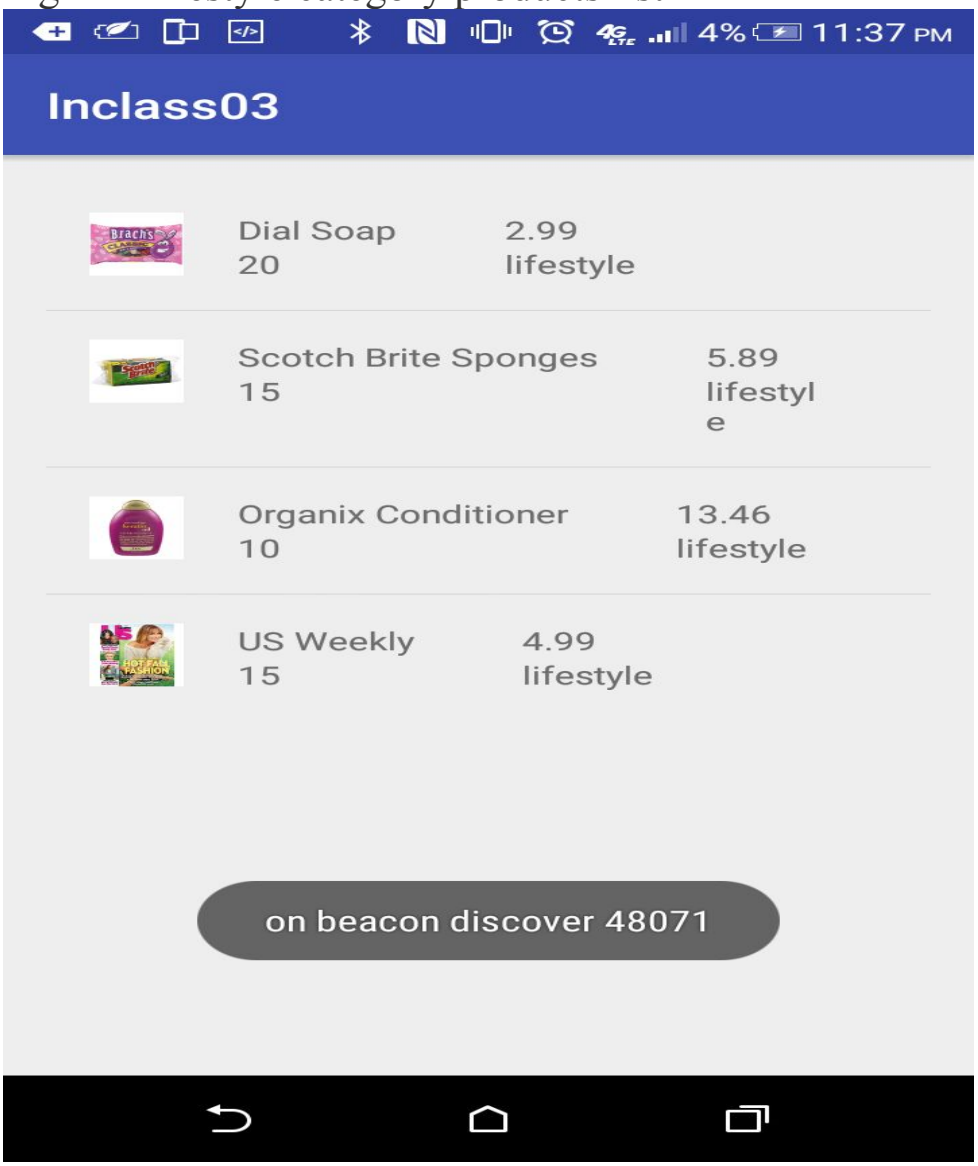


Fig 2 – Grocery category products list

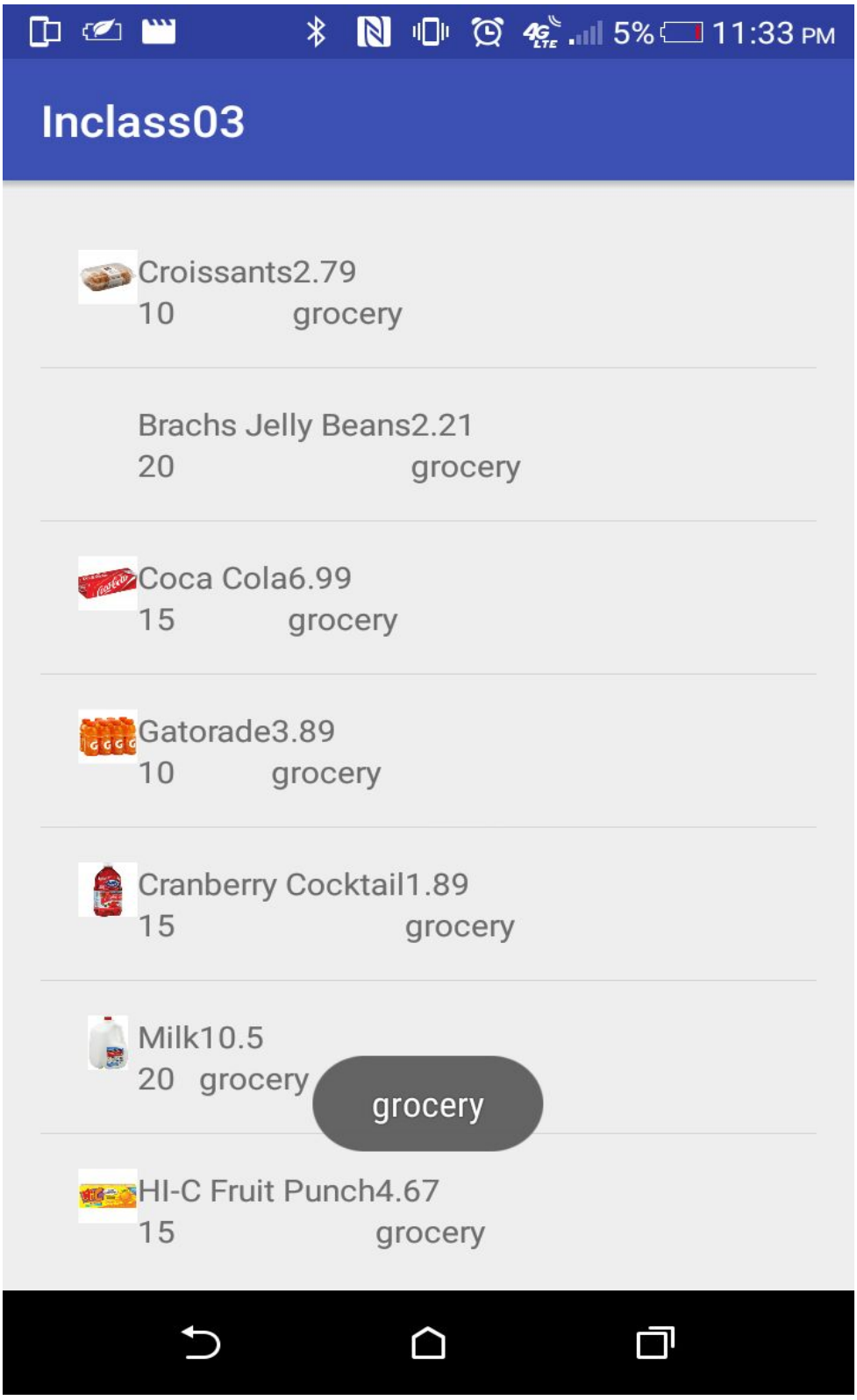
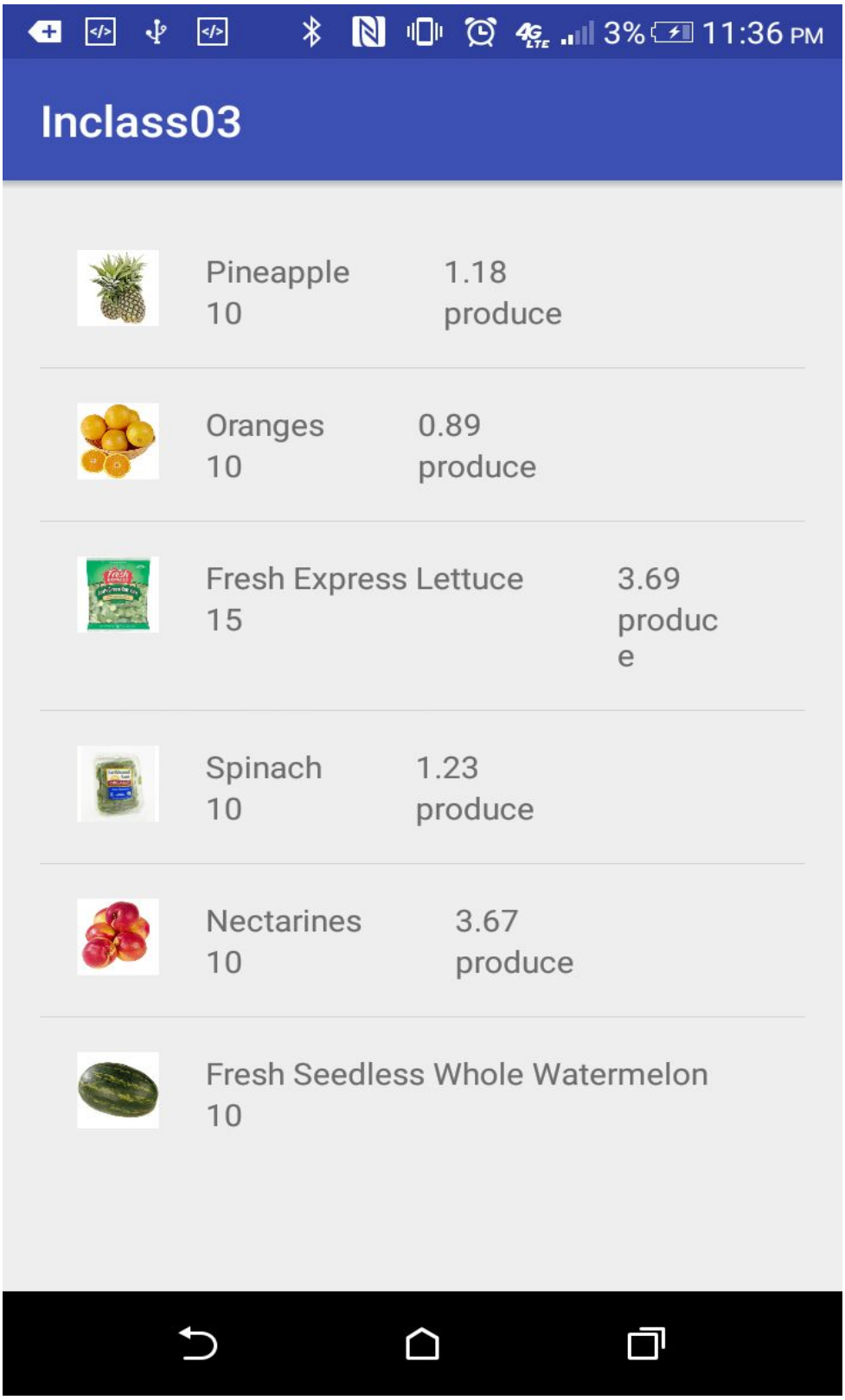
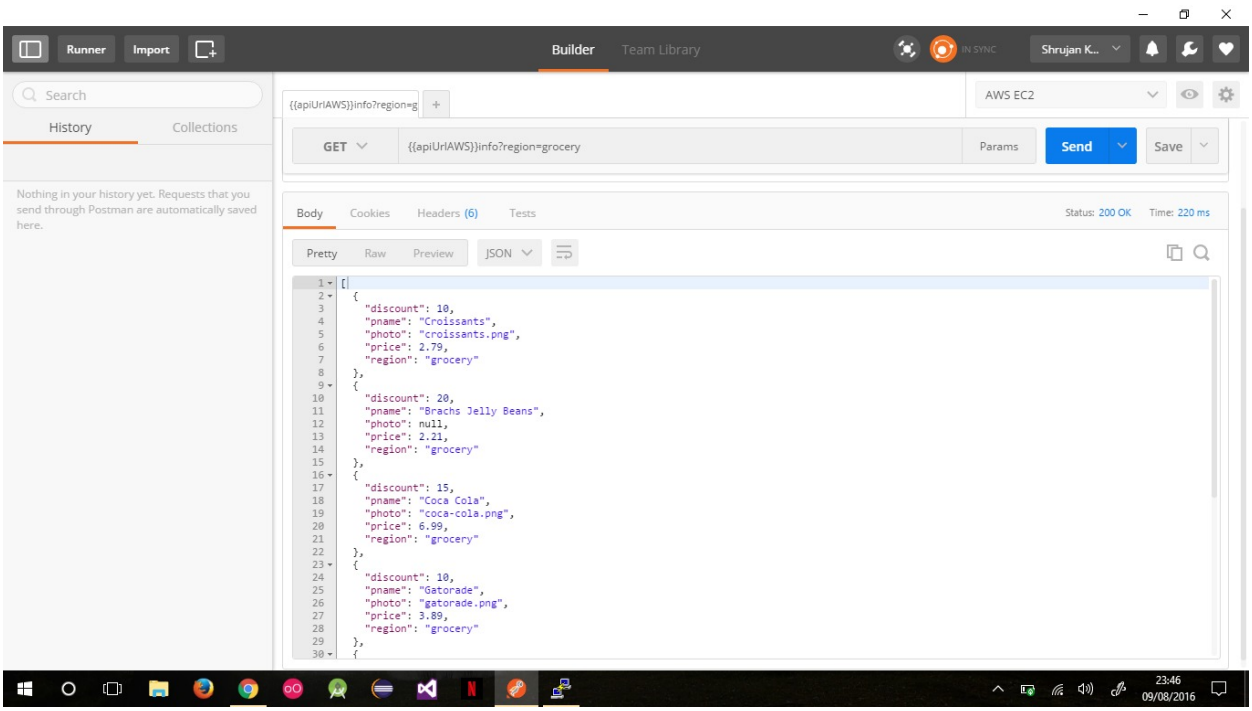


Fig 3 – Produce category products list

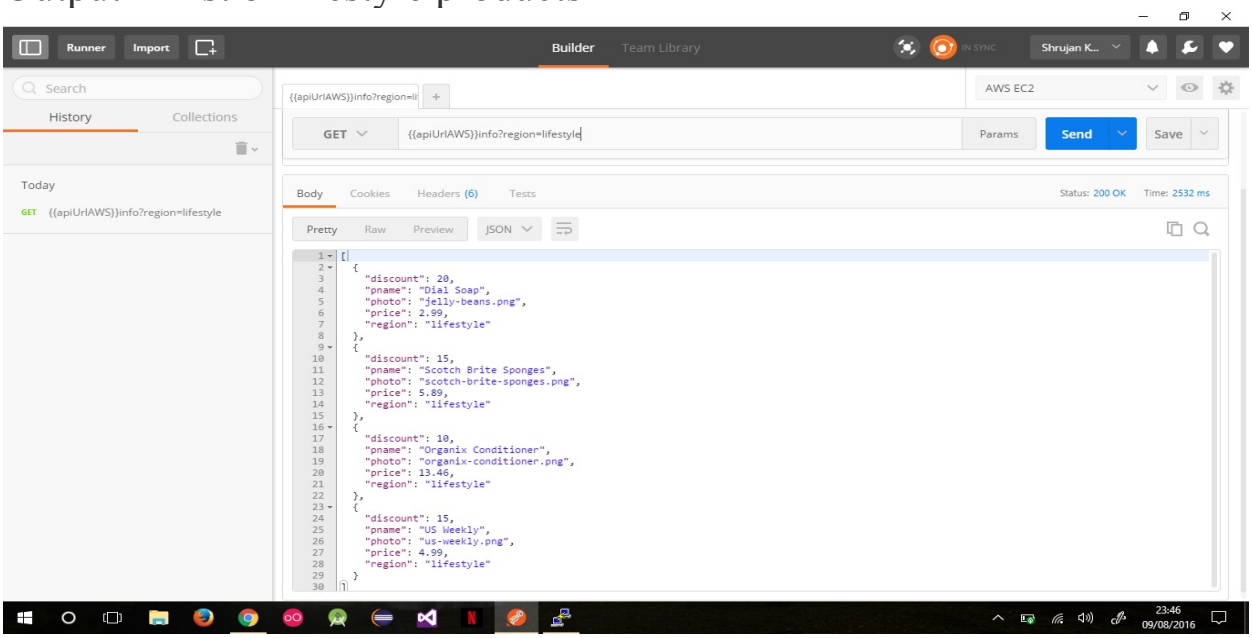

3% 11:36 PM
Inclass03
Pineapple
10
1.18
produce
Oranges
10
0.89
produce
Fresh Express Lettuce
15
3.69
produc
e
Spinach
10
1.23
produce
Nectarines
10
3.67
produce
Fresh Seedless Whole Watermelon
10

Postman Screenshots:

Grocery URL – http://52.42.214.119:3000/info?region=grocery
Output – List of grocery products



URL - http://52.42.214.119:3000/info?region=lifestyle
Output – List of lifestyle products



Algorithm used

```
beaconManager.setRangingListener((region, list) -> {
        if (!list.isEmpty()) {
            Toast.makeText(MainActivity.this,"on beacon discover "+list.get(0).getMajor(),Toast.LENGTH_SHORT).show();

            for(Region reg : lstRegion){
                if(list.get(0).getMajor()==reg.getMajor()){
                    if(oldCategory.isEmpty() || !oldCategory.equals(reg.getIdentifier())) {
                            Toast.makeText(MainActivity.this, reg.getIdentifier(), Toast.LENGTH_LONG).show();
                            oldCategory=reg.getIdentifier();
                            new AppAsynTask(MainActivity.this).execute(reg.getIdentifier());
                        }

                }
            }

    }
});
```

If there are multiple beacons discovered at a particular place then the beacons list will be automatically arranged in the order of the strongest

signal. So the first entry in the list is the nearest beacon to the mobile device and it is considered to display the list of products.