Flujo de Datos de la Aplicación Funcional y Pruebas Iniciales

Codificación de Capa de Datos:

1. Aquí se encuentra el código que se utiliza para guardar los datos de las ubicaciones en Firebase:

```
protected void onCreate(Bundle savedInstanceState) {
            Bundle param
                                                                         = getIntent().getExtras();
            lat = (Double) param.get("lat");
lng = (Double) param.get("lng");
                                      location.setType(getString(R.string.table_locations_recycle_type));
            CircleImageView waste = (CircleImageView) findViewById(R.id.trash_can);
                                      location.setType(getString(R.string.table_locations_waste_type));
                                      location.setLongitude(lng.toString());
private void createLocationFirebase(Location loc){
            Firebase myFirebaseRef = new Firebase(getString(R.string.firebase_database_locations));
            Firebase locationsTable = myFirebaseRef.child(getString(R.string.firebase_locations)).push();
            locations Table.child(getString(R.string.firebase\_locations\_comment)).setValue(loc.getComment());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude)).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude)).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude)).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude)).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude)).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude)).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude()).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude()).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string.firebase\_locations\_latitude()).setValue(loc.getLatitude());\\ locations Table.child(getString(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.string(R.
            locations Table. child (\texttt{getString}(R.string. \textit{firebase\_locations\_id})). \texttt{setValue}(loc. \texttt{getLocationId}()) \\
            locations Table.child(getString(R.string.firebase\_locations\_longitude)).setValue(loc.getLongitude()); \\
```

2. Consulta de datos y despliegue en el mapa

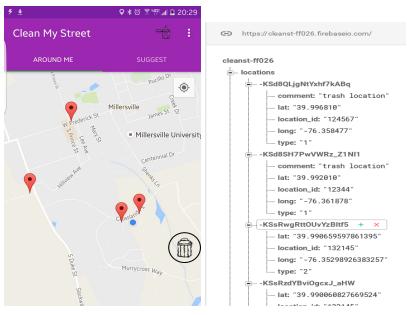
Verificar datos en firebase:

Se genera una base de datos con las ubicaciones guardadas, el tipo de ubicación indica si es bote de reciclaje o bote de basura normal:

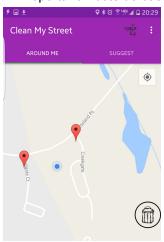


Validar que la información sea desplegada en mi aplicación:

1. Al inicio de la aplicación vemos como se cargan las posiciones que existen actualmente en la base de datos:



- 2. Realizamos un zoom para ver ubicaciones cercanas a la posición actual:
- 3. Damos click en una nueva ubicación para reportar un bote de basura:



4. Seleccionamos el tipo de bote de basura que queremos reportar:



5. Al regresar al mapa vemos que el nuevo bote se despliega de manera exitosa:

