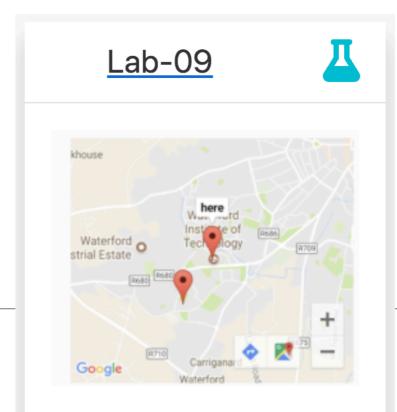
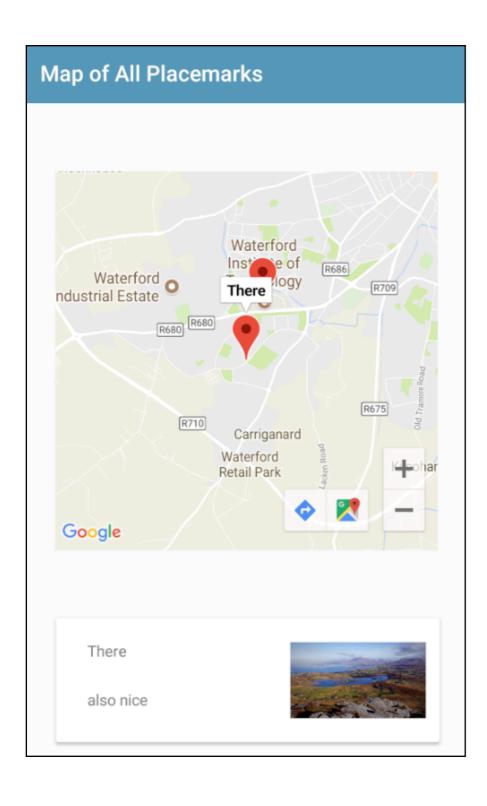
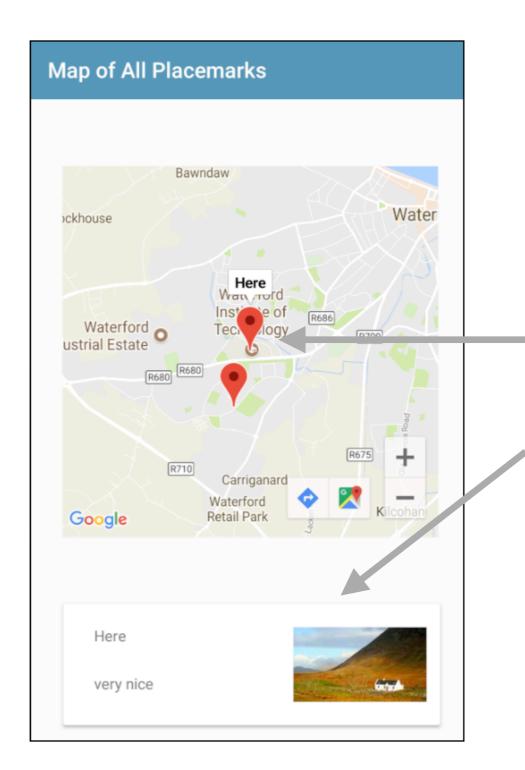
Maps - Markers



Support placemark details by clicking on marker + set current location as starting point for creating a Placemark.

PlacemarkMapsActivity





Select placemark...

dynamically updates card details

PlacemarkStore - findByld

```
interface PlacemarkStore {
   suspend fun findAll(): List<PlacemarkModel>
   suspend fun findById(id:Long) : PlacemarkModel?
   fun create(placemark: PlacemarkModel)
   fun update(placemark: PlacemarkModel)
   fun delete(placemark: PlacemarkModel)
}
```

new method to search for placemaker by id

PlacemarkDao- findByld

```
@Dao
interface PlacemarkDao {
 @Insert(onConflict = OnConflictStrategy.REPLACE)
  fun create(placemark: PlacemarkModel)
 @Query("SELECT * FROM PlacemarkModel")
  fun findAll(): List<PlacemarkModel>
 @Query("select * from PlacemarkModel where id = :id")
  fun findById(id: Long): PlacemarkModel
 @Update
  fun update(placemark: PlacemarkModel)
 @Delete
  fun deletePlacemark(placemark: PlacemarkModel)
```

new method to search for placemaker by id

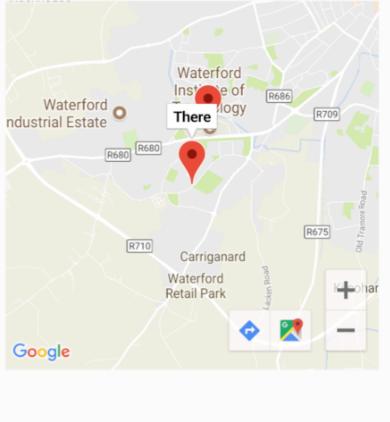
PlacemarkStoreRoom

```
class PlacemarkStoreRoom(val context: Context) : PlacemarkStore {
 var dao: PlacemarkDao
 override suspend fun findById(id: Long): PlacemarkModel? {
   val deferredPlacemark = bg {
                                                            new method to
     dao.findById(id)
                                                               search for
   val placemark = deferredPlacemark.await()
                                                          placemaker by id
   return placemark
```

PlacemarkMapsActivity

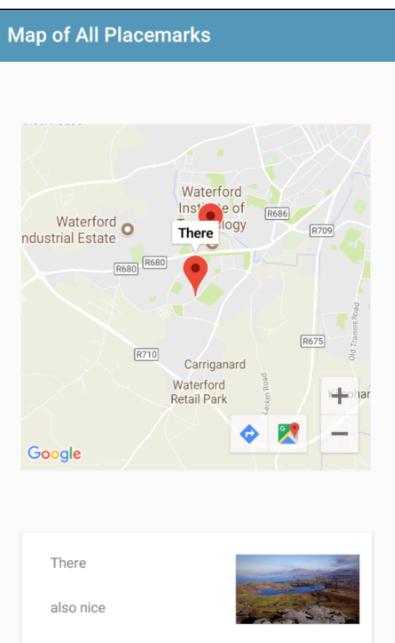
```
ndustrial Estate
fun configureMap() {
  map.uiSettings.setZoomControlsEnabled(true)
  map.setOnMarkerClickListener(this)
  async(UI) {
    app.placemarks.findAll().forEach {
      val loc = LatLng(it.lat, it.lng)
                                                                                          Waterford
                                                                                          Retail Park
      val options = MarkerOptions().title(it.title).position(loc)
      map.addMarker(options).tag = it.id
                                                                             Google
      map.moveCamera(CameraUpdateFactory.newLatLngZoom(loc, it.zoom))
                                                                               There
override fun onMarkerClick(marker: Marker): Boolean {
                                                                               also nice
  async(UI) {
    val tag = marker.tag as Long
    val placemark = app.placemarks.findById(tag)
    currentTitle.text = placemark!!.title
    currentDescription.text = placemark!!.description
    imageView.setImageBitmap(readImageFromPath(this@PlacemarkMapsActivity, placemark.image))
  return false
```

Map of All Placemarks



PlacemarkMapsActivity

```
fun configureMap() {
    map.uiSettings.setZoomControlsEnabled(true)
    map.setOnMarkerClickListener(this)
    async(UI) {
        app.placemarks.findAll().forEach {
            val loc = LatLng(it.lat, it.lng)
            val options = MarkerOptions().title(it.title).position(loc)
            map.addMarker(options).tag = it.id
            map.moveCamera(CameraUpdateFactory.newLatLngZoom(loc, it.zoom))
        }
    }
}
```



Add all placemarks to map
As each placemark is added - include its **ID** as a **TAG**

map.addMarker(options).tag = it.id

<u>PlacemarkMapsActivity</u>

When a marker clicked -

- recover the marked tag
- look up tag in placemark database
- put placemark details in card

```
override fun onMarkerClick(marker: Marker): Boolean {
   async(UI) {
    val tag = marker.tag as Long
   val placemark = app.placemarks.findById(tag)
        currentTitle.text = placemark!!.title
        currentDescription.text = placemark!!.description
        imageView.setImageBitmap(readImageFromPath(this@PlacemarkMapsActivity, placemark.image))
   }
   return false
}
```

Map of All Placemarks

Waterford o

Carriganard

Waterford Retail Park

ndustrial Estate

Google