Cycling GPS App

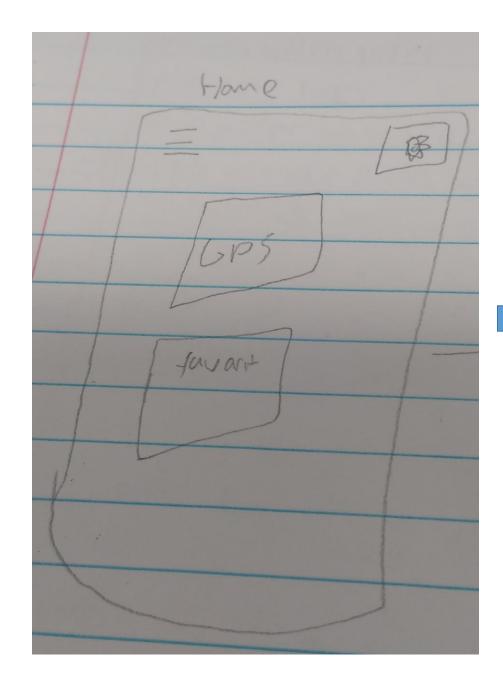
2	What are needs in committy? What needs to charge? what ion se improved?
	Seffer 5 each and move for the ss
	more people ourside
	more acting trails
	Late an incomments of CUCLIST
2=	c'he rearned a lot in Java what have I a complished
	move bike lanes
	marke rodes nices.
	make more connected trails
	need to widen rodes
	MOVE bike races
i fr	ake easer ways to acess places and

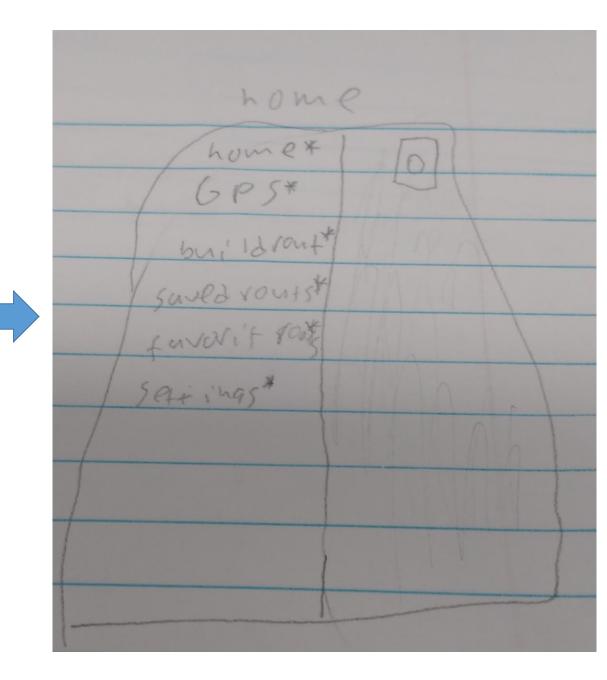
	Talmas a pair of commander	2.
	adress negs of community	nou lo w/ Has Sand bike lan
1	have program that takes	you on routs w/ trails and bike lan
/		imparter could used on phone :

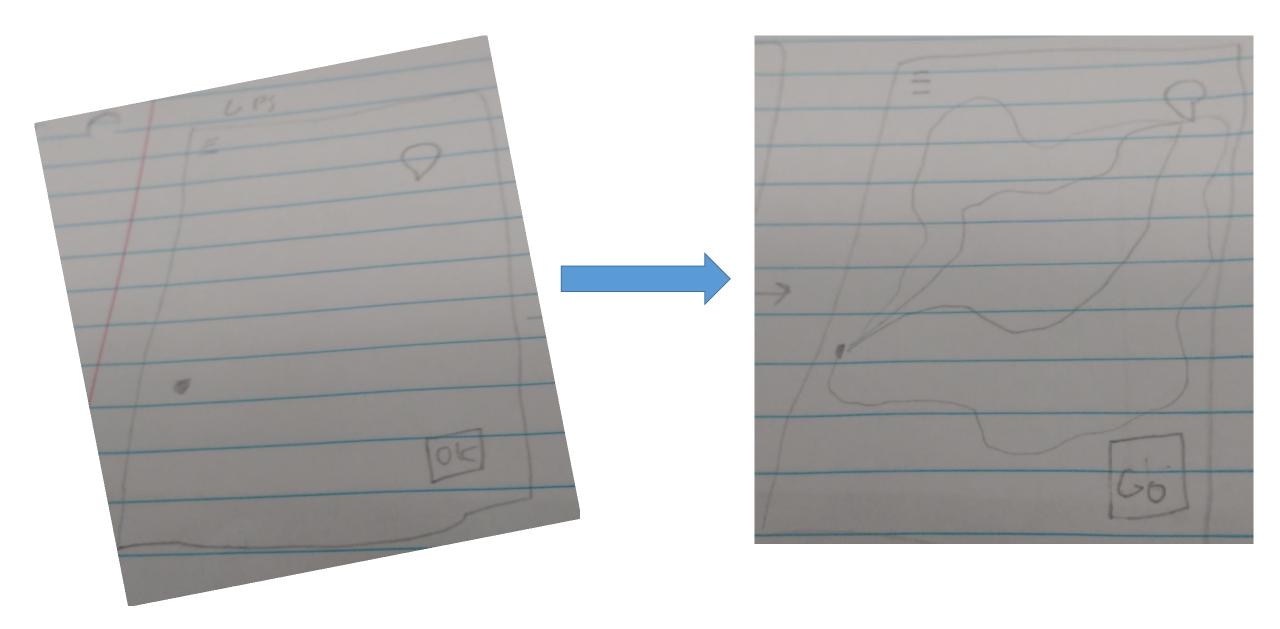
different modes for app 5 aved routs dune home

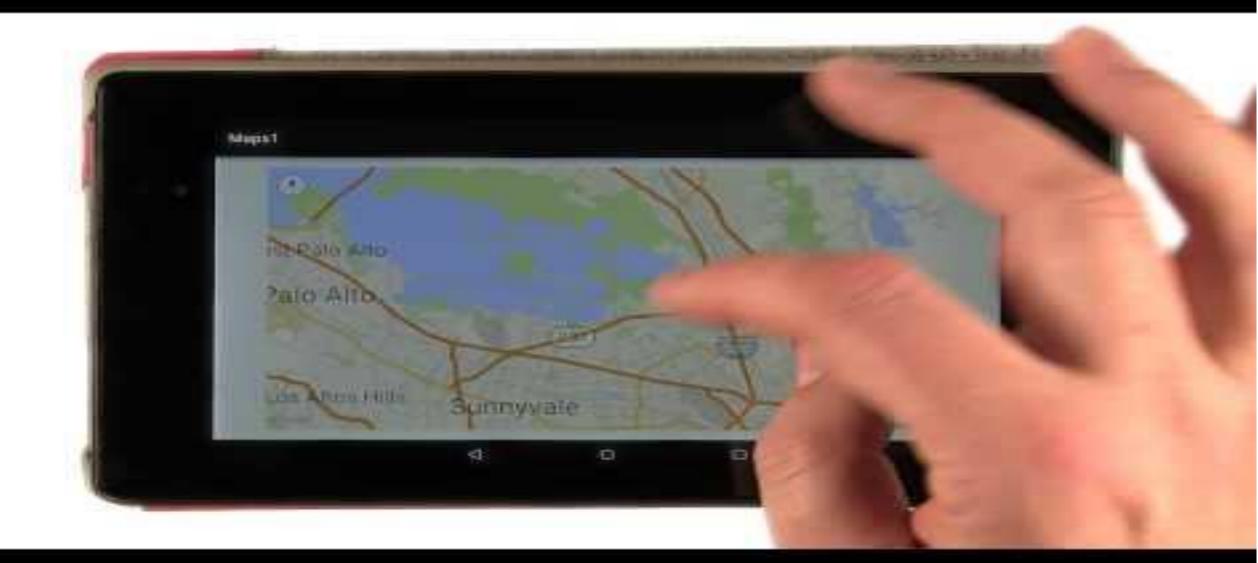
diff. modes this side requires WIFI or Data
GPS
La translocation be able to put in new location
4 build vout from the 2 points
5 manpy, have different vout aptions ((ike coogle)
be able to save roup
flat
mill y
tostes
Slest trafic

build rout	Glest trafi(
Ly you manualy buil	2 your rout
Lyou can save the v	









setting Up Maps set up Billing . ٠ Create a Project Enable Maps API set up credentials

📚 Exc	ellence for All Kenned 🗙 🛛 🐔 Files -	OneDrive 🛛 🗙 🎦 AP Comp Sci final prestation 🗙 🕕 Add Google Maps to your 🗙 G Credentials - first map 🛛 🗙 📃			±	_	ð	×
← →	← → C Attps://console.developers.google.com/apis/credentials?project=first-map-167715				☆ =			
=	Google APIs first map	• Q i	1	Ð	0	<u>ب</u>	0 0 0	•
API	API Manager	Credentials						
¢	Dashboard	Credentials OAuth consent screen Domain verification						
Ш	Library	Create credentials 👻 Delete						
0+	Credentials	Create credentials to access your enabled APIs. Refer to the API documentation for details.						

API keys

🗅 e 📮 🖨 🧿

Name	Creation date 🗸	Restriction	Кеу	
API key 1	May 15, 2017	Android app	AlzaSyBJUuzxwQtYJSXkcA_B3-0N2s7J11327Fs	/ 1



New App Checklist

- 1. Create Blank Activity App
- 2. Edit Build.gradle
- 3. Edit Android.manifest
 - meta for Google Services
 - meta for API Key
 - permissions for:

internet, network state and write external storage

- meta for OpenGL /

```
🕵 AndroidManifest.xml 🗴 🛛 🥺 activity_main.xml 🗴 🛛
                                           💽 app 🛛
                                                                                                                                                    \odot
                                                                                                                                                    Gradle
    apply plugin: 'com.android.application'
    android {
        compileSdkVersion 25
        buildToolsVersion "25.0.3"
        defaultConfig {
            applicationId "com.example.a19cpeterson.firstmap"
            minSdkVersion 22
            targetSdkVersion 25
            versionCode 1
            versionName "1.0"
            testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"
        buildTypes {
            release {
                minifyEnabled false
                proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
    dependencies {
        compile fileTree(dir: 'libs', include: ['*.jar'])
        androidTestCompile('com.android.support.test.espresso:espresso-core:2.2.2', {
            exclude group: 'com.android.support', module: 'support-annotations'
        })
        compile 'com.android.support:appcompat-v7:25.3.1'
        compile 'com.google.android.gms:play-services:10.2.4'
        testCompile 'junit:junit:4.12'
```

<pre>al version="1.0" encoding="utf-8">> nifest xmlns:android="http://schemas.android.com/apk/res/android" package="com.example.al9cpeterson.firstmap"></pre>
<pre>package="com.example.al9cpeterson.firstmap"> uses-feature android:glEsVersion="0x00020000" android:lBsVersion="0x00020000" android:lesVersion="0x00020000" android:lesture> c/uses-feature> capplication android:lobel="First map" android:lobel="Pirst map" android:supportsRtl="true" android:label="Pirst map" android:theme="style/AppTheme" > cmeta-data android:name="android:name=com.google.android.maps.v2.API_KEY" android:value="AlzaSyBJUuzxwQtYJSXkcA_B3-ON2s7J11327Fs" cactivity android:label="First map"> android:label="First map"> android:label="First map" android:label="First map" android:label="first map"> cactivity android:label="First map"> cactivity android:label="First map"> cactivity android:label="First map"> caction android:label="String/app_name"> caction android:name="android.intent.category.LAUNCHER" /> cactegory android:name="android.intent.category.LAUNCHER" /> c/intent-filter> </pre>
<pre></pre>
<pre>android:glBsVersion="0x00020000" android:required="true"> </pre>
<pre>android:required="true"> </pre>
<pre></pre> <pre><</pre>
<pre><application android:allowbackup="true" android:label="First map" android:supportsrtl="true" android:theme="@style/AppTheme"></application></pre>
<pre>android:allowBackup="true" android:icon="@mipmap/ic_launcher" android:icon="@mipmap/ic_launcher" android:label="First map" android:supportsRtl="true" android:theme="@style/AppTheme" > android:name = "com.google.gms.version" android:value = "10240000" /> android:label="First map"> android:label="First map"> android:label="@string/app_name"> android:label="First map"> android:label="@string/app_name"> android:label="First map"> android:label="@string/app_name"> android:label="@string/app_name"> android:label="@string/app_name"> android:name=".MainActivity" android:label="First map" android:supportsRtl="true" android:theme="@style/AppTheme" ></pre>
<pre>android:label="First map" android:supportsRtl="true" android:theme="@style/AppTheme" ></pre>
<pre>android:supportsRtl="true" android:theme="@style/AppTheme" > (meta-data android:name = "com.google.gms.version" android:value = "10240000" /> <meta-data ,<br="" android:name="android:name=com.google.android.maps.v2.API_KEY" android:value="AlzaSyBJUuzxwQtYJSXkcA_B3-0N2s7J11327Fs"><activity android:name=".MainActivity" android:label="First map"> android:label="First map"> android:label="@string/app_name"> <action <br="" android:name=".MainActivity">android:label="First map"> <action android:name="android.intent.action.MAIN"></action> <action android:name="android.intent.category.LAUNCHER"></action> </action></activity </meta-data></pre>
<pre>android:theme="@style/AppTheme" ></pre>
<pre></pre> <pre><</pre>
<pre>android:name = "com.google.gms.version" android:value = "10240000" /> <meta-data ,<br="" android:name="android:name=com.google.android.maps.v2.API_KEY" android:value="AIzaSyBJUuzxwQtYJSXkcA_B3-ON2s7J11327Fs"><activity android:name=".MainActivity" android:label="First map"> android:label="First map"> android:label="@string/app_name"> <action android:label="@string/app_name"> <action android:name="android.intent.action.MAIN"></action> <action android:name="android.intent.action.MAIN"></action> <actegory android:name="android.intent.category.LAUNCHER"></actegory> </action></activity </meta-data></pre>
<pre>android:value = "10240000" /> <meta-data ,="" <activity="" android:label="First map" android:name="android:name=com.google.android.maps.v2.API_KEY" android:value="AIzaSyBJUuzxwQtYJSXkcA_B3-0N2s7J11327Fs"> android:label="First map"> android:label="First map"></meta-data></pre>
<pre><meta-data ,<="" android:name="android:name=com.google.android.maps.v2.API_KEY" android:value="AIzaSyBJUuzxwQtYJSXkcA_B3-ON2s7J11327Fs" td=""></meta-data></pre>
<pre> <activity android:label="First map" android:name=".MainActivity"> android:label="@string/app_name"></activity></pre>
<pre>android:name=".MainActivity" android:label="First map"> android:label="@string/app_name"> caction android:label="@string/app_name"> caction android:name="android.intent.action.MAIN" /> category android:name="android.intent.category.LAUNCHER" /> c/intent-filter></pre>
android:label="First map"> android:label="@string/app_name"> <action android:name="android.intent.action.MAIN"></action> <category android:name="android.intent.category.LAUNCHER"></category>
android:label="@string/app_name"> <action android:name="android.intent.action.MAIN"></action> <category android:name="android.intent.category.LAUNCHER"></category>
<pre><action android:name="android.intent.action.MAIN"></action></pre>
<pre><category android:name="android.intent.category.LAUNCHER"></category> </pre>
<pre></pre>
<pre> </pre>
<pre></pre>
<pre><uses-permission android:name="android.permission.ACCESS NETWORK STATE"></uses-permission></pre>
<pre></pre>
<pre></pre>
anifest>

Adding a Map Fragment Edit activity_main.xml

<fragment xmlns:android="http://schemas.android.com/apk/res/android"
 android:id="@+id/map"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:layout_height="match_parent"</pre>

	۲
۲	Gradle

xml version="1.0" encoding="utf-8"?
<pre><relativelayout <="" pre="" xmlns:android="http://schemas.android.com/apk/res/android"></relativelayout></pre>
<pre>xmlns:tools="http://schemas.android.com/tools"</pre>
android:id="@+id/activity_map"
android:layout width="match parent"
android:layout height="match parent"
android:paddingBottom="@dimen/activity_vertical_margin"
android:paddingLeft="@dimen/activity horizontal margin"
android:paddingRight="@dimen/activity_horizontal_margin"
android:paddingTop="@dimen/activity_vertical_margin"
<pre>tools:context="com.example.a19cpeterson.firstmap.MainActivity"></pre>
<textview< td=""></textview<>
android:layout width="wrap content"
android:layout height="wrap content"
android:text="Hello World!" />
<fragment <="" td="" xmlns:android="http://schemas.android.com/apk/res/android"></fragment>
android:layout width="match parent"
android:layout height="match parent"
android:name="com.google.android.gms.maps.MapFragment"/>

</RelativeLayout>

Talking about MapFragment



Questions?