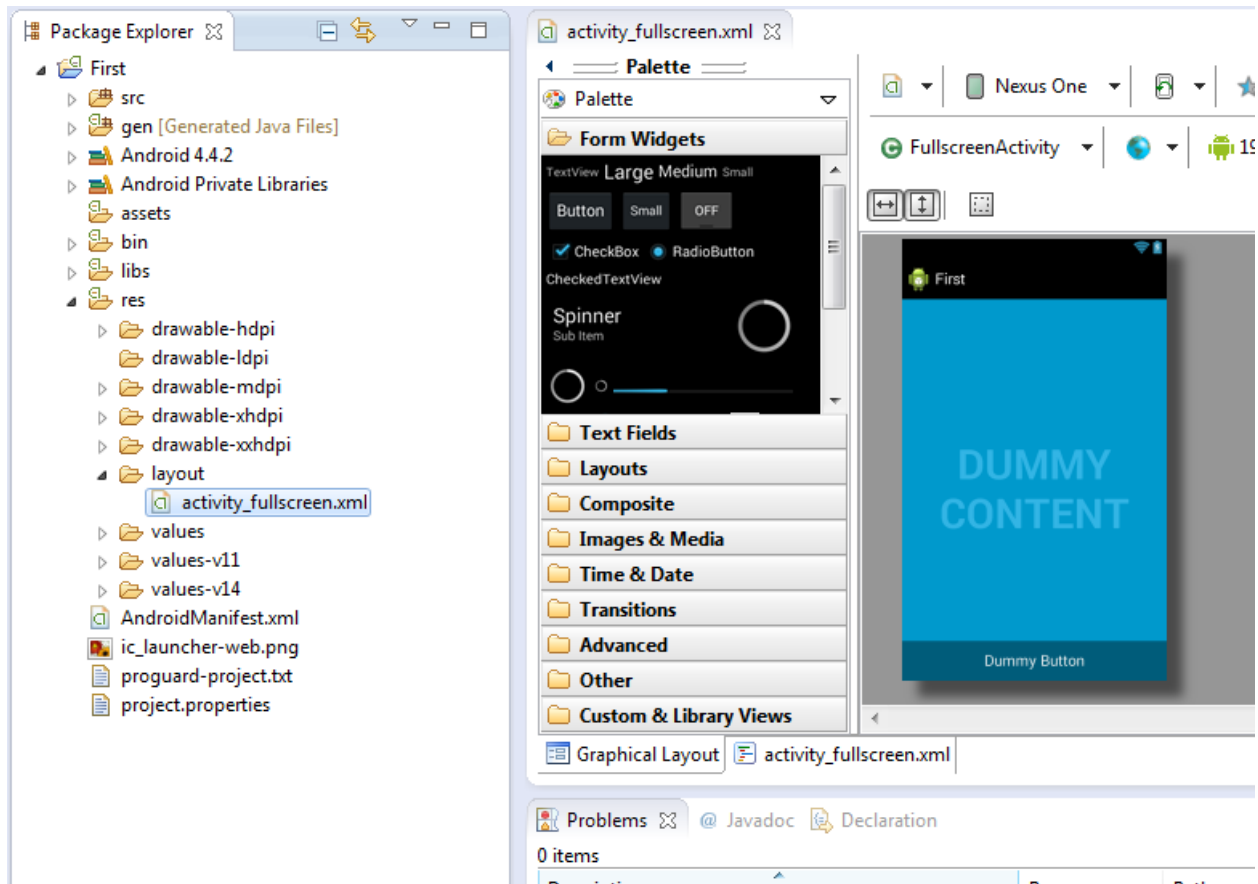


Lab 4: Android Application, REST and SOAP Services

Sailaja Pedaprolu
16157493

The first task was to develop an android application that would display google map. Google Map API was used for this purpose.



Firstly, Eclipse IDE is installed and using SDK Manager latest packages are downloaded and installed. Linear layout is chosen and androidManifest.xml, activity.xml and .java files are opened. A new android application project namely 'Map' is built.

Later, Google API features are loaded into the project. It is necessary to generate a Key to use the google services. So to generate a key command prompt is opened and "-tool..." is typed. As we press enter a random sequence of no.s is generated which becomes the authentication key. This key is entered in the google key generator under android key tab followed by app name.

Blackboard L x List of Video x Android App x Google Map x Google APIs x Signing Your x google api k x Android Tut x Signing Your x

https://code.google.com/apis/console/?noredirect#project:922217619539:access

Services
Team
API Access
Billing
Reports
Quotas
BigQuery
Google Cloud SQL
Google Cloud Storage

Authorized API Access
OAuth 2.0 allows users to share specific data with you (for example, contact lists) while keeping their usernames, passwords, and other information private. A single project may contain up to 20 client IDs. [Learn more](#)

Branding information
The following information is shown to users whenever you request access to their private data.
Product name: Project Default Service Account
Google account: raman.sailaja16@gmail.com

Edit branding information

Client ID for Google C

Client ID:
Email address:
Redirect URIs:
JavaScript origins:

Create another client ID

Simple API Access
Use API keys to identify
Create new Server key

Notification Endpoints
Use notification endpoints to identify domains that may receive webhooks notifications from your API. [Learn more](#)

Allowed Domains: No domains allowed

Download JSON
Delete...

Code Home - Privacy Policy

Send Feedback

4:37 PM
2/26/2014

Blackboard L x List of Video x Android App x Google Map x Google APIs x Signing Your x google api k x Android Tut x Signing Your x

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Create new Server key

Notification Endpoints
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Allowed Domains:

Configure Android Key for My Project

This key can be deployed in your Android applications.

API requests are sent directly to Google from your clients' Android devices. Google verifies that each request originates from an Android application that matches one of the certificate SHA1 fingerprints and package names listed below. You can discover the SHA1 fingerprint of your developer certificate using the following command:
keytool -list -v -keystore mystore.keystore [Learn more](#)

Accept requests from an Android application with one of the certificate fingerprints and package names listed below:

53:F0:64:3E:D2:58:1B:FC:8D:21:D0:59:03:50:D2:88:26:93:87:DE

One SHA1 certificate fingerprint and package name (separated by a semicolon) per line. Example:
45:B5:E4:6F:36:AD:0A:98:94:B4:02:66:2B:12:17:F2:56:26:A0:E0:com.example

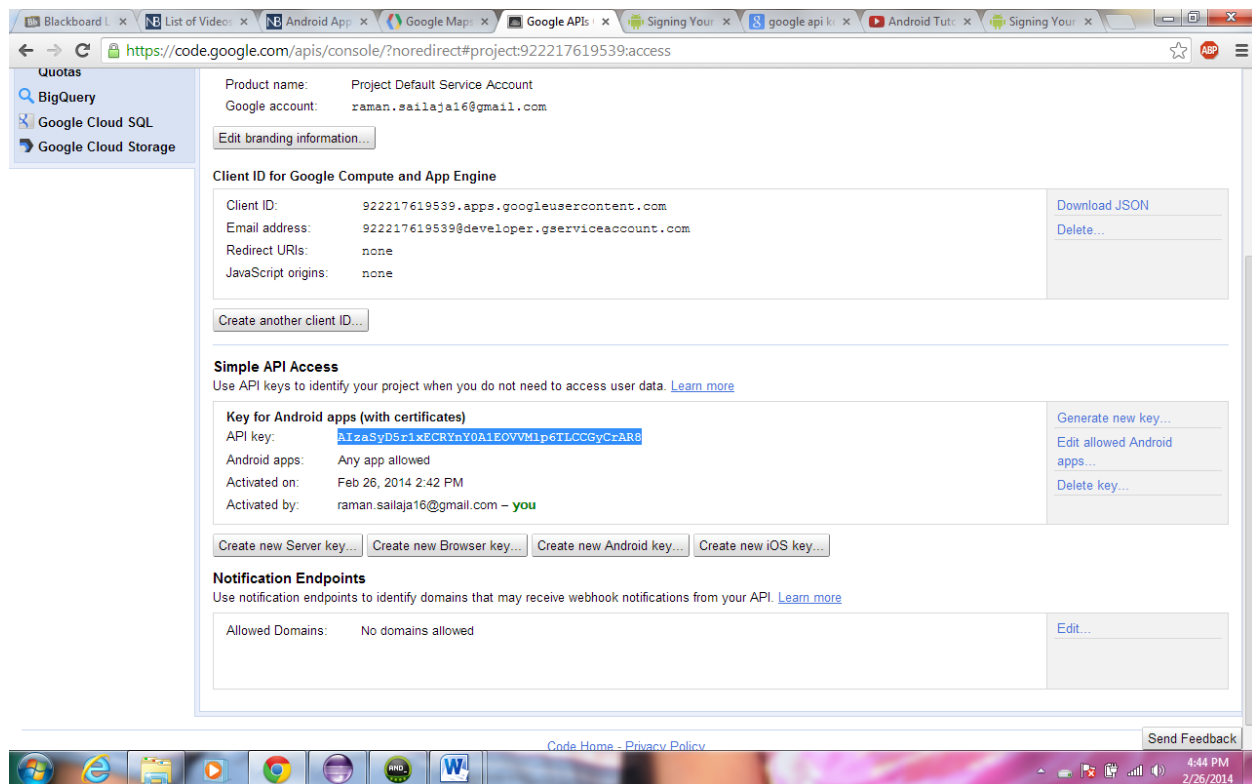
Create Cancel

Download JSON
Delete...

Code Home - Privacy Policy

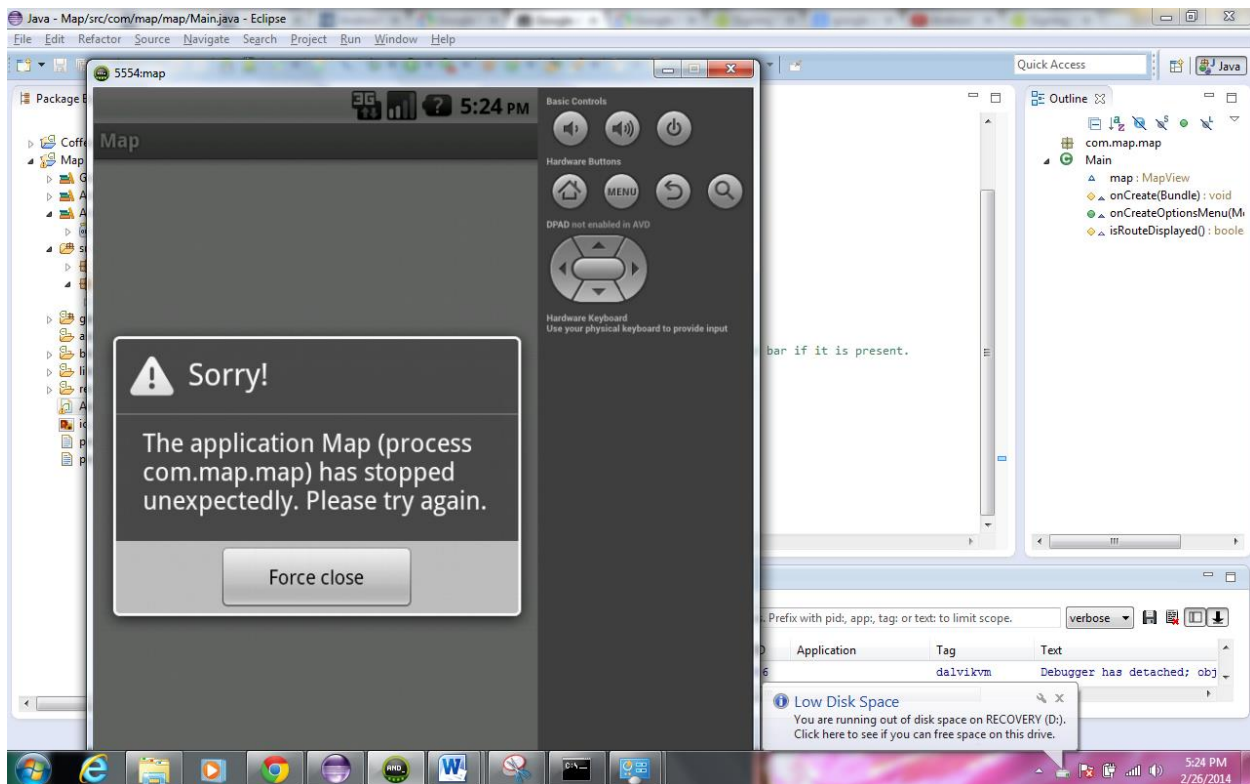
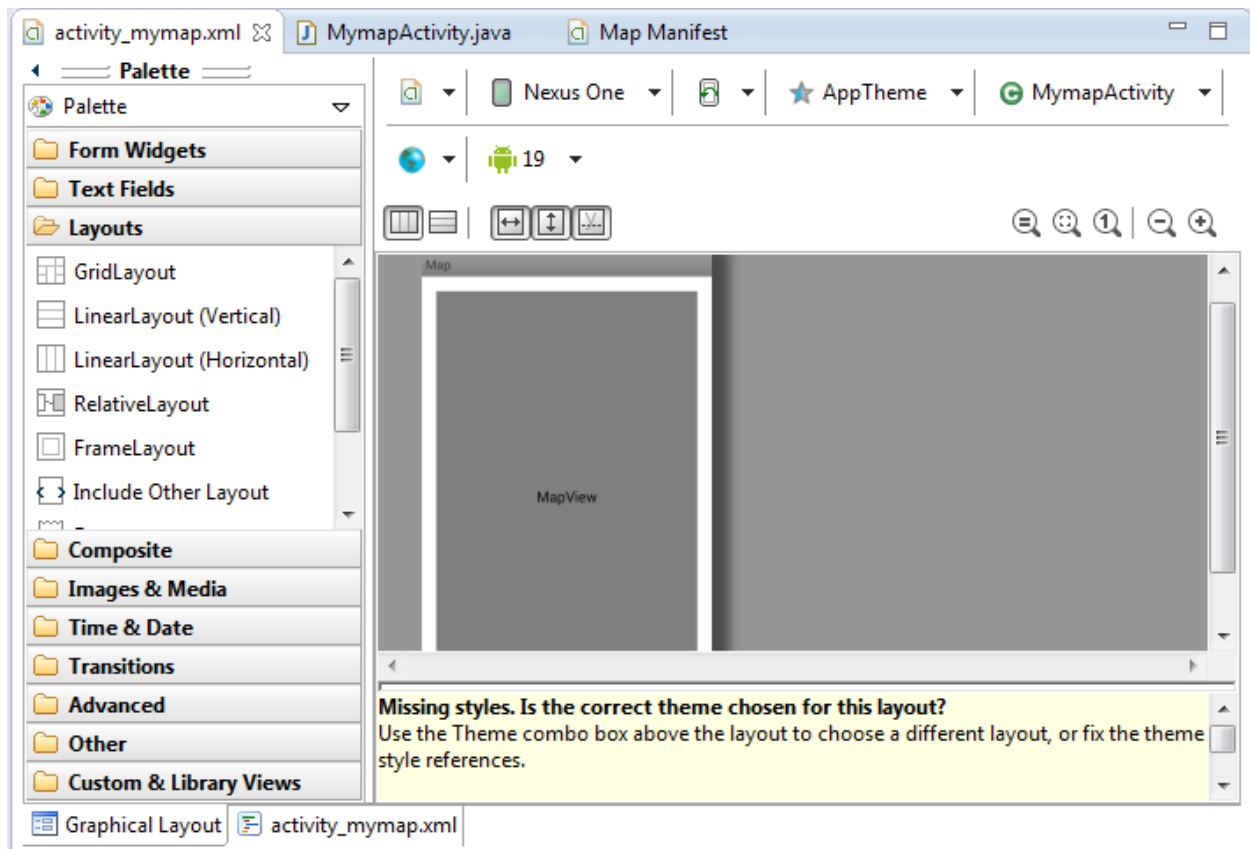
Send Feedback

4:37 PM
2/26/2014

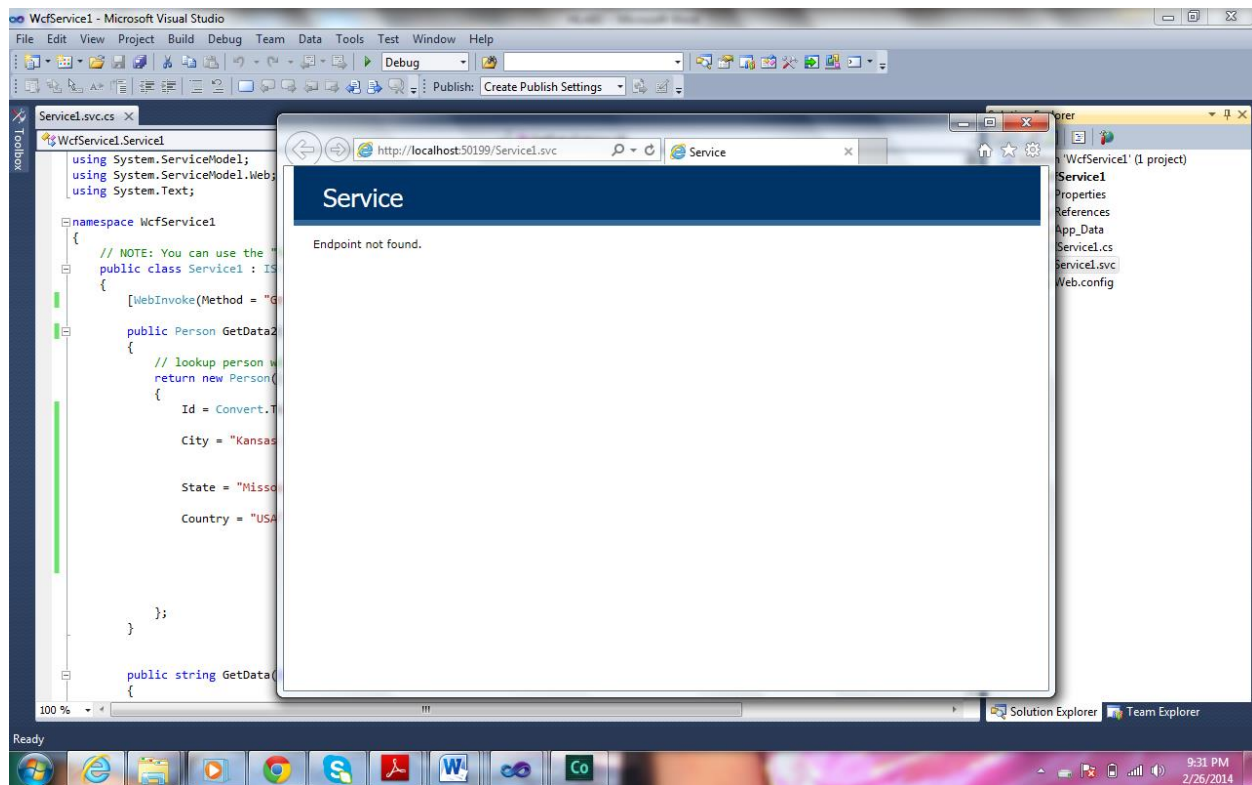


The generated key is added to the .xml code under activity.

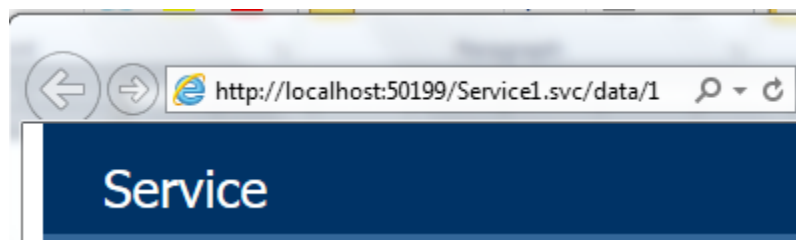




Rest Service: A service that displays the names of city, state and country is designed. First of all, an IIS server is locally installed. Later, a source file is created in visual Studio. When the file is opened using a browser initially nothing appears.



Later when the url is appended with “/data/1”

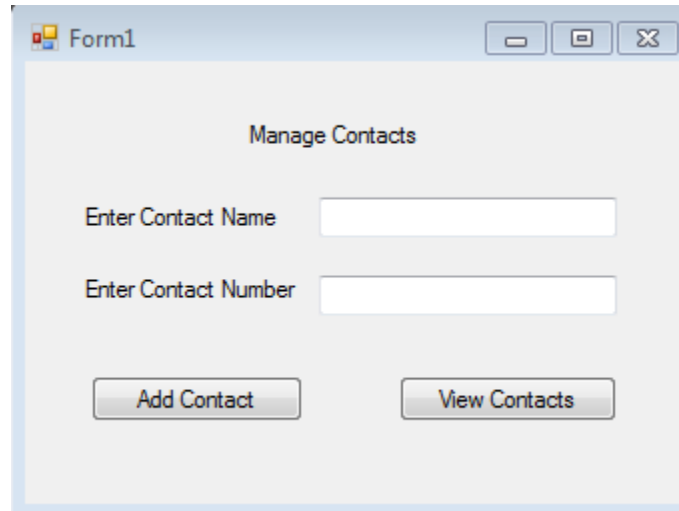


The following result appears. Similarly when several other entries can be retrieved by changing the data number entry.

```
1  {"City":"Kansas City","Country":"USA","Id":1,"State":"Missouri"}
```

Creating a Database:

A service is created that takes names and phone no.s as inputs and updates a database. Using the MS Visual Studio, the following front end design screen is configured.



Form1

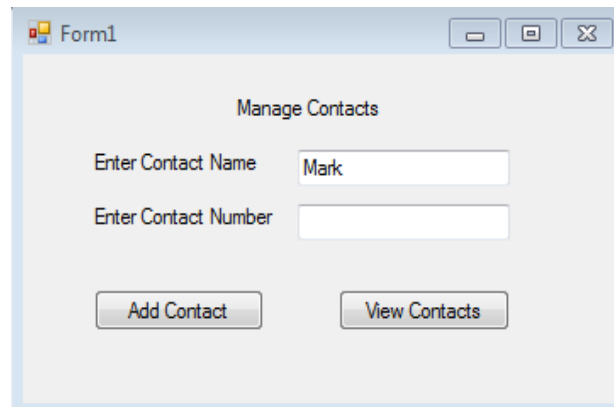
Manage Contacts

Enter Contact Name

Enter Contact Number

Add Contact View Contacts

Then the desired information is entered into the text fields



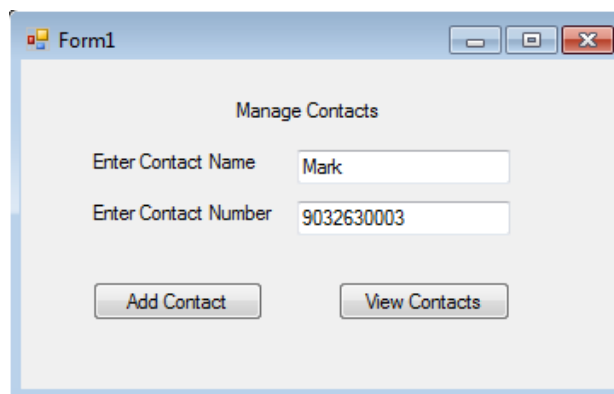
Form1

Manage Contacts

Enter Contact Name

Enter Contact Number

Add Contact View Contacts



Form1

Manage Contacts

Enter Contact Name

Enter Contact Number

Add Contact View Contacts

Then, when the “show Contacts” is clicked, the following is displayed.

Mark

90632630003