

Accela SDK for Android

Version 3.0

GETTING STARTED GUIDE



Accela SDK for Android Getting Started Guide

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TABLE OF CONTENTS

| | |
|---|----------|
| Preface | 4 |
| Revision History | 4 |
| Getting Help | 4 |
| Related Publications | 5 |
| Documentation Feedback | 5 |
| Getting Started with Accela SDK for Android | 6 |
| Setting Up Environment for Android Development | 6 |
| Registering Applications on Accela Developer Portal | 6 |
| Installing Accela SDK and Creating Projects | 8 |
| Downloading and Running a Sample Project | 17 |

PREFACE

The Accela SDK for Android is designed to be easy to install and use. This guide walks you through the basics of setting up the development environment and using the SDK or project template to create an app.

Revision History

This revision history table summarizes changes made during each release of this document for version 3.0 of Accela SDK for Android.

Table 1: Revision History

| Date | Description |
|-------------|---|
| August 2013 | Updated to the latest terminology and user interfaces |
| May 2013 | Initial document release |

Getting Help

If you need technical assistance, one of your best resources is the [Accela Customer Resource Center \(CRC\)](#). There, you can search the knowledge base to find answers to commonly asked questions about our products. You can also register to use the Accela Forum where you can find a wealth of practical information from other Accela users, as well as participate in dynamic information exchange.

If you still have questions after visiting Accela's CRC site, or if you encounter any problems as you use the product, contact your agency administrator.

If you determine that you need professional technical assistance, have your agency's designated contact call the CRC at (888) 7-ACCELA, ext. 5 or (888) 722-2352 ext. 5. The Accela CRC is available Monday through Friday from 6:00 AM to 6:00 PM (PST/PDT).

Before calling, please have the following information available for the CRC representative:

- The Accela product name and version number.
- Steps to replicate the issue, including any error message or error number.
- Screen shots, if possible.
- Whether the problem is specific to a machine or to a user.
- Exactly when the problem began.
- Anything that changed on your computer or network (for example, new software was loaded).

- A copy of your configuration file, if appropriate.

Related Publications

Accela provides a set of SDK documents for agency and third-party developers.

- *Login - Getting Started (online help)*

Documentation Feedback

Accela wants to provide you with the most accurate and useful documentation possible. We welcome your feedback in helping us improve future versions of this guide. Send an e-mail message with your feedback to documentation@accela.com. Please include the product name and version number, whether the feedback involves a printed manual or online help, the topic title, and a brief description and context of the suggestion.

GETTING STARTED WITH ACCELA SDK FOR ANDROID

The Accela SDK for Android is designed to be easy to install and use. This guide walks you through the basics of setting up the development environment.

Topics

- [Setting Up Environment for Android Development](#)
- [Registering Applications on Accela Developer Portal](#)
- [Installing Accela SDK and Creating Projects](#)
- [Downloading and Running a Sample Project](#)

Setting Up Environment for Android Development

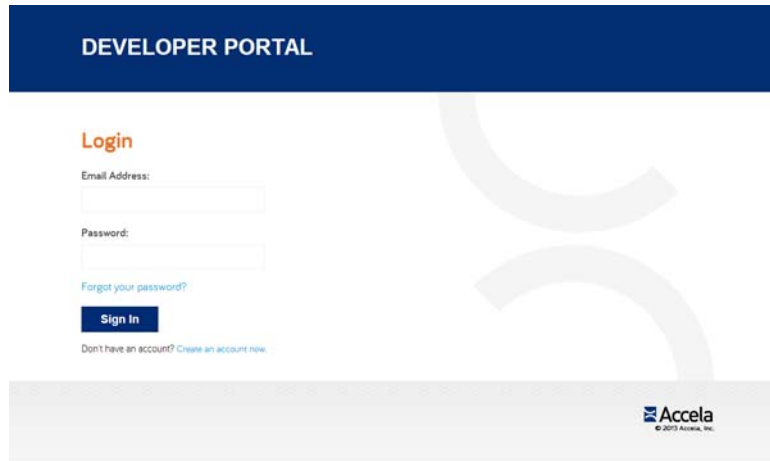
Before developing applications with Accela SDK on Android operating system, you need to set up environment for Android development first. For detailed procedure of setting up environment for Android development, see <http://developer.android.com/sdk/installing/installing-adt.html>.

Note: *When setting up the environment, add the Android Support Library. It is required because Accela SDK refers to some classes in the library. For more information about Android Support Library, see <http://developer.android.com/tools/extras/support-library.html>.*

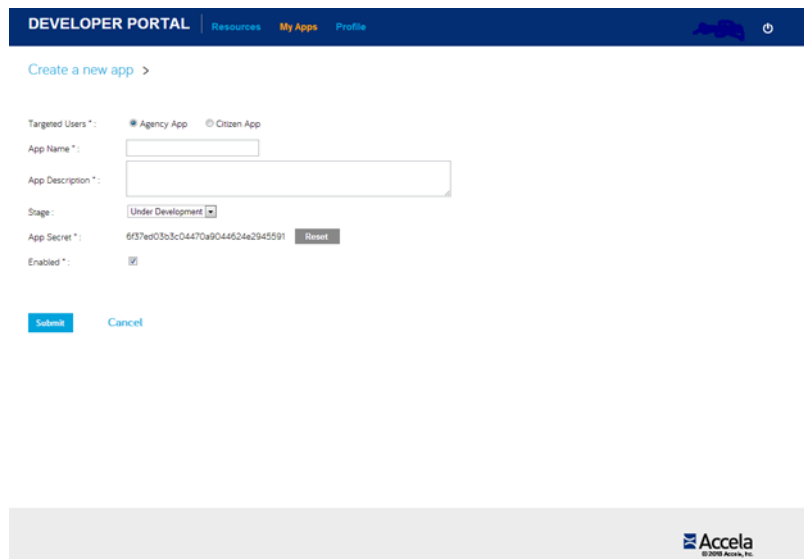
Registering Applications on Accela Developer Portal

To register applications on Accela Developer portal

1. Log in to the Accela developer portal.



2. Navigate to the My Apps tab.
3. Click the **Add New App** button.
The Add New App window appears.



4. Fill in the fields.

Targeted Users If you want to create an app for agencies, select the **Agency App** button; if you want to create an app for citizens, select the **Citizen App** button.

App Name Enter the app name.

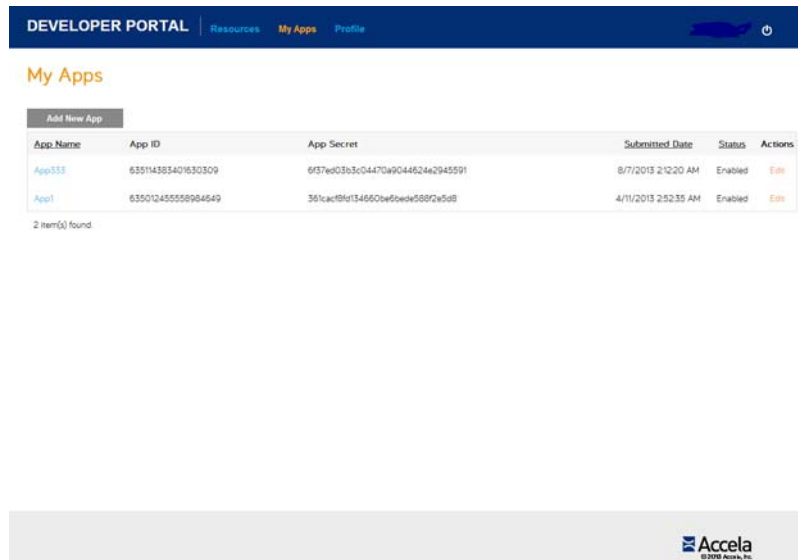
App Description Enter the descriptions of the app.

Stage Enter the development stage of the app. You can choose **Under Development** or **Published** in the drop down list.

- App Secret** The app secret is generated automatically. Remember the value of the app secret and it will be required when setting up your app with Accela SDK.
- Enabled** Mark the check box to enable the app or clear the check box to disable the app.

5. Click the **Submit** button.

The My Apps window appears.



Note: Remember the value of the App ID because it will be required when setting up applications with Android SDK.

Installing Accela SDK and Creating Projects

Install Accela SDK and import it to your Android project so that you can develop applications for agencies or citizens with Accela SDK. There are two approaches to achieve this goal.

Approach 1: Installing Accela SDK through Eclipse Plugin

To install Accela SDK through Eclipse plugin and create a template project, implement the following tasks in order.

Topics:

- [Task I: Installing Accela SDK](#)
- [Task II: Creating Projects with Accela SDK](#)

Task I: Installing Accela SDK

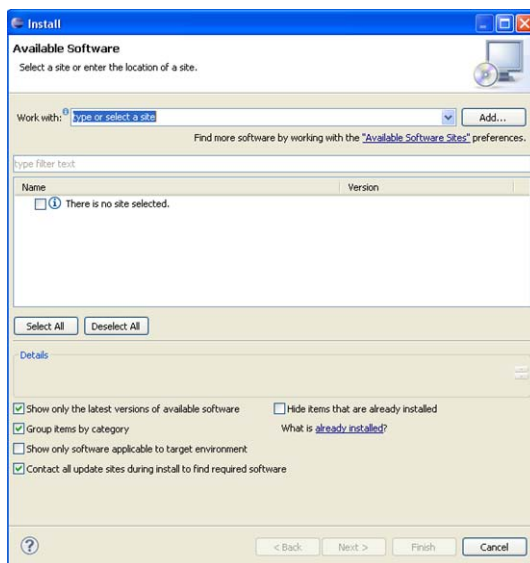
There are two ways to install Accela SDK:

- To install Accela SDK on line through Eclipse plugin
- To install Accela SDK off line through Eclipse plugin

To install Accela SDK on line through Eclipse plugin

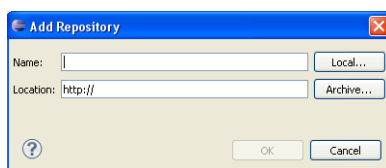
1. Start Eclipse.
2. Choose **Help > Install New Software**.

The Install window appears.



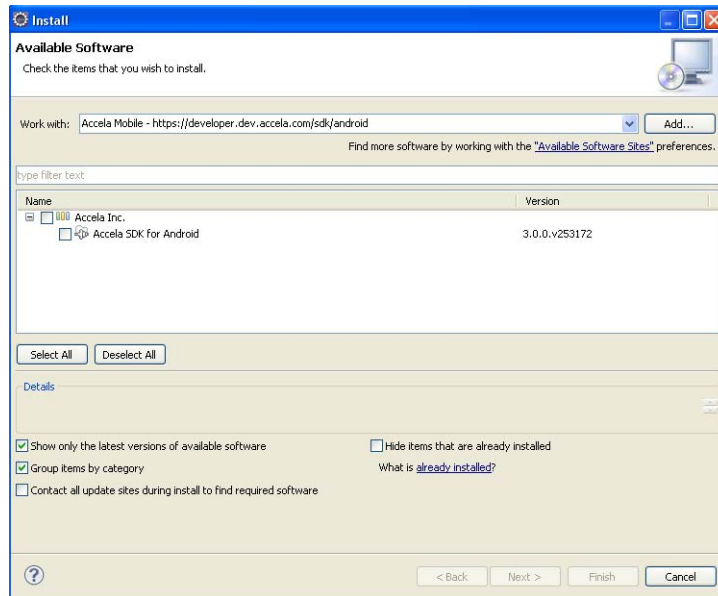
3. Click the **Add** button.

The Add Repository window appears.



4. Enter the Accela SDK name, for example, Accela Mobile. Enter the location, <https://developer.accela.com/sdk/android>. And then click the **OK** button.

The list of available Accela SDK components appears.



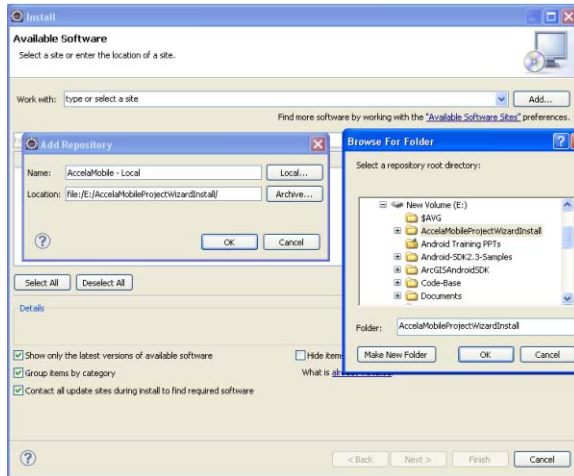
5. Mark the check boxes next to the Accelea Inc. components.
6. Step through the wizard.

Now the Accelea SDK plugin is installed in Eclipse. You can continue with the next steps to create a template project.

To install Accelea SDK off line through Eclipse plugin

1. Download the Accelea SDK offline installation package at <https://developer.accelea.com/sdk/android.zip>, then unzip it to a local disk.
2. Start Eclipse.
3. Choose **Help > Install New Software**.
4. Click the **Add** button.
5. Click the **Local...** button.

The Browse For Folder window appears.



6. Browse and select the folder mentioned in [step 1](#) of this section. Enter the Accela SDK name, and click the **OK** button.

The list of available Accela SDK components appears.

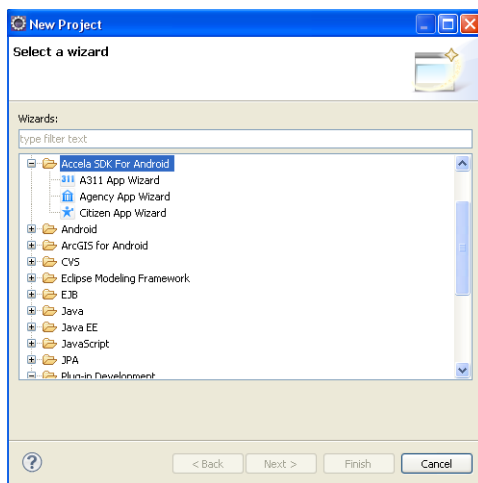
7. Mark the check boxes next to the Accela Inc. components and step through the wizard.

Task II: Creating Projects with Accela SDK

To create a project with Accela SDK through Eclipse plugin

1. Choose **File > New > Project**.

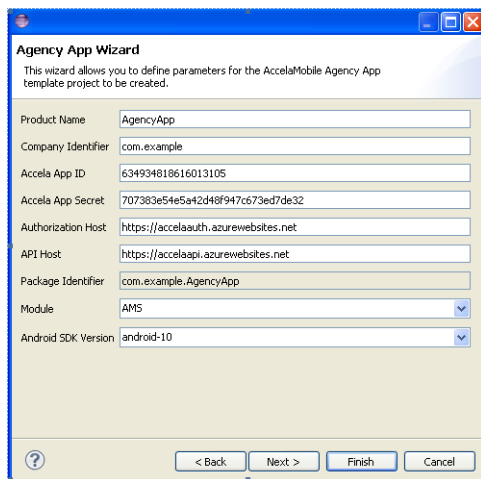
The New Project window appears.



2. Select a project type corresponding to the type of app which you created in [step 4](#) of the [Registering Applications on Accela Developer Portal](#) chapter. For example, if you select the **Agency App** button in the [step 4](#) of the [Registering Applications on Accela Developer Portal](#) chapter, choose “Agency App Wizard” here.

3. Click the **Next** button.

The Agency App Wizard window appears.

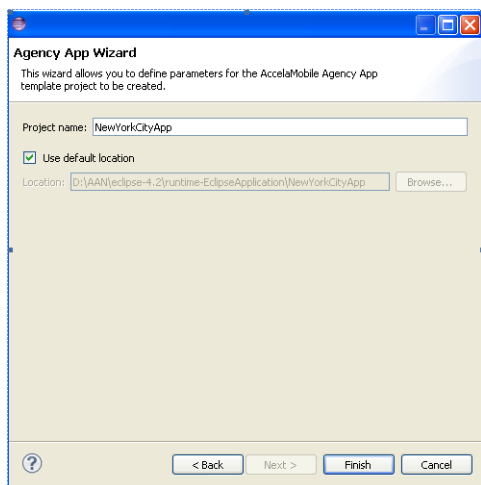


4. Fill in the fields. In this step, you need to use the App ID created in [step 5](#) and App Secret created in [step 4](#) of the [Registering Applications on Accele Developer Portal](#) chapter.

Note: *The Android SDK Version means the Android API level on which the application runs so make sure the corresponding version of Android SDK is installed before selecting an API level.*

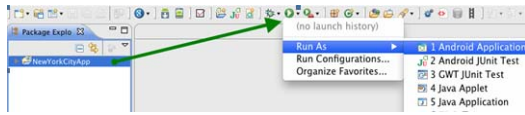
5. Click the **Next** button.

The following window appears.



6. Enter the project name, choose a location, and then click the **Finish** button.

Now the Accele Agency App template project is created. The project name appears on the project tree panel. As it is a complete Android project, you can run it directly.



Approach 2: Integrating Accela SDK into Android Project Manually

To integrate Accela SDK into Android project manually, implement the following tasks in order.

Topics:

- [Task I: Downloading Accela SDK for Android on Accela Developer portal](#)
- [Task II: Creating Android Project Manually](#)
- [Task III: Importing Accela SDK into Android Project Manually](#)

Task I: Downloading Accela SDK for Android on Accela Developer portal

To download Accela SDK for Android on Accela Developer portal

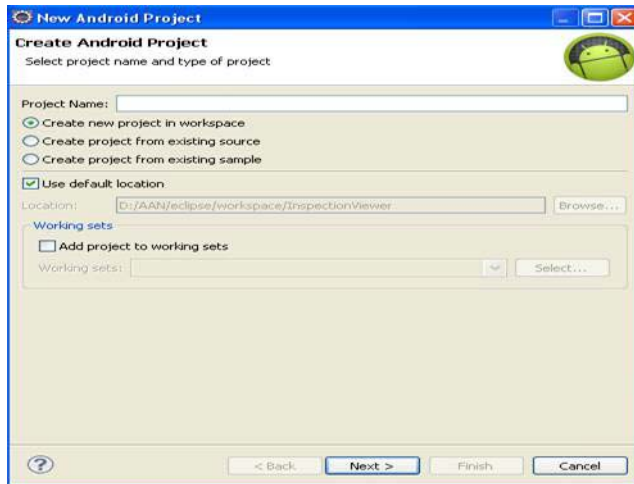
1. Log in to the Accela Developer portal.
2. Navigate to the Resources tab.
3. Click the **Download Accela SDK for Android** link in the Android Resources list.
4. Save the downloaded SDK file *AccelaSDK.jar* to a local disk.

Task II: Creating Android Project Manually

To create an android project manually

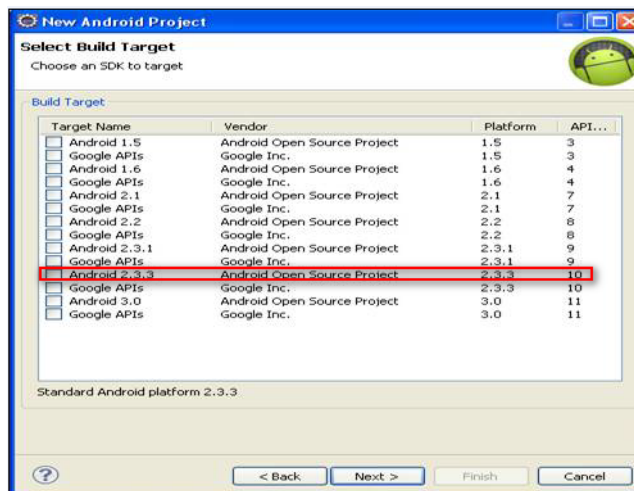
Take creating an Android project named “InspectionViewer” for example.

1. Start Eclipse.
2. Choose **File > New > Android Project**.
The New Android Project dialog appears.



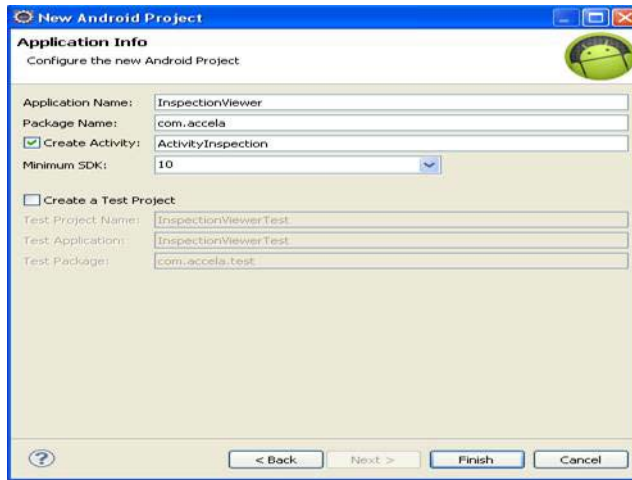
3. Enter "InspectionViewer" as the project name, click the **Create new project in workspace** option button, select the **Use default location** check box, and then click the **Next** button.

The dialogue box for selecting build target appears.



4. Select Android 2.3.3 (API level 10) or a later version as the build target. Click the **Next** button.

The dialogue box for application information appears.

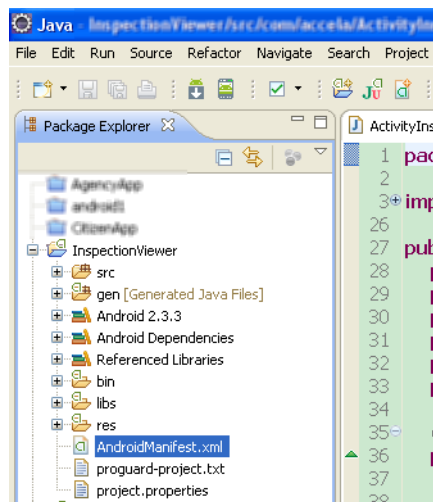


5. Fill in the information.

- Application Name** Enter the Application name, for example, “InspectionViewer”.
- Package Name** Enter the package name, for example, “com.accela”.
- Create Activity** Whether to create activities. In this example, mark the **Create Activity** check box, and enter “ActivityInspection”.
- Minimum SDK** Choose the minimum version number of SDK, for example, “10”.
- Create a Test Project** Whether to create a test project. In this example, unmark the check box.

6. Click the **Finish** button.

- 7. Update the Android Manifest XML file for Accela Mobile specific configurations.
 - a. Locate the *AndroidManifest.xml* file in the project navigation panel and open it.



- b. Add the following content after the </application> element node:

```
<uses-permission android:name="android.permission.INTERNET" />
```

- c. Add the declaration of AuthorizationActivity within the </application> element node; otherwise, you will be unable to invoke authorization page, then unable to log in to the Android application.

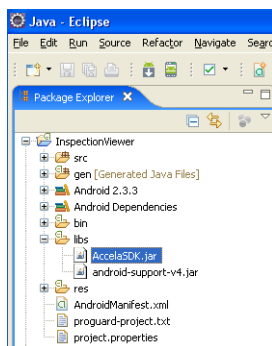
```
<activity android:name="com.accela.mobile.AuthorizationActivity"
    android:windowSoftInputMode="stateHidden" >
    <intent-filter>
        <action android:name="android.intent.action.VIEW"></action>
        <category android:name="android.intent.category.DEFAULT"></category>
        <category android:name="android.intent.category.BROWSABLE"></category>
        <data android:scheme="amtest" android:host="authorize"></data>
    </intent-filter>
</activity>
```

Task III: Importing Accela SDK into Android Project Manually

To import Accela SDK into Android project manually

1. Locate the home directory of your project, for example, D:\workspace\app\.
2. Add a new folder, "libs".
3. Copy the *AccelaSDK.jar* file to the "libs" folder.
4. Press the F5 key on the keyboard to refresh the project tree view.

Now the Accela SDK is imported into the project.



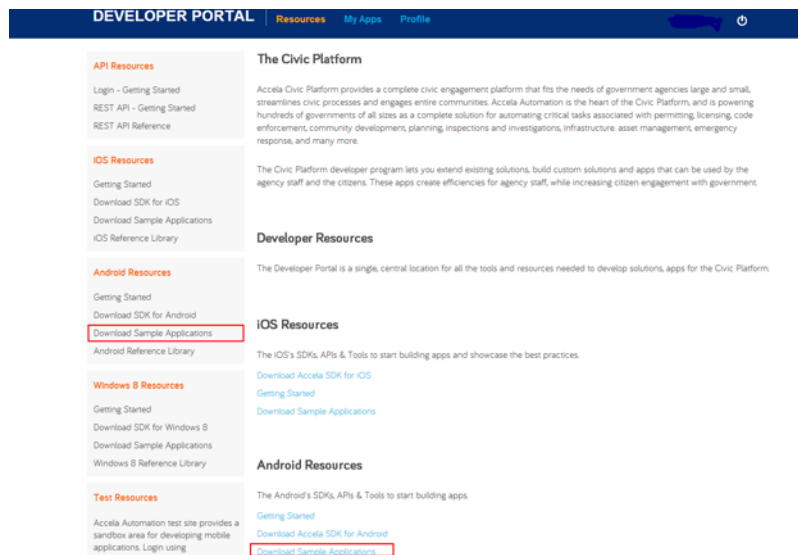
5. Update the Android Manifest XML file for Accela Mobile specific configurations. For detailed procedure, refer to [step 7](#) of the [Installing Accela SDK and Creating Projects](#) chapter.

Downloading and Running a Sample Project

Accela offers you a sample project on the Accela Developer Portal. The sample project demonstrates the common features that you can integrate into an Android app via the Accela SDK for Android.

To download and run a sample project

1. Navigate to the Resources tab on the Accela Developer Portal.
2. From the Android Resources list, click the **Download Sample Applications** link.



3. Save the sample project package (*.zip) into your local drive.
4. Open Eclipse and run the sample project.