**Project Resource**[Welcome to SQL (Khan Academy)](https://www.khanacademy.org/computing/hour-of-code/hour-of-sql/v/welcome-to-sql)

* Introduction to SQL basic commands - CREATE, INSERT, SELECT

[Android Storage Options](https://developer.android.com/guide/topics/data/data-storage.html)

* Overview of Data Storage in Android. This project will focus on the "SQLite Databases" option.

[Saving Data in SQL Database in Android](https://developer.android.com/training/basics/data-storage/databases.html)

* Covers how to execute these concepts in an Android app:
  + Create a SQLite table in your app
  + Populating that table with new entries
  + Modifying the entries
  + Displaying the contents of the table to users.

[SQLite Datatypes](https://www.sqlite.org/datatype3.html)

* Understand the available SQLite datatypes

*The last four resources below cover these topics:*

* Storing information in a SQLite database
* Integrating Android’s file storage systems into that database
* Presenting information from files and SQLite databases to users
* Updating information based on user input.
* Creating intents to other apps using stored information.

[How to Use a Content Provider](https://www.udacity.com/course/viewer#!/c-ud258/l-3372188753/m-3432888624)

[Creating a Content Provider](https://developer.android.com/guide/topics/providers/content-provider-creating.html#ContentURI)

[Designing Content URIs](https://developer.android.com/guide/topics/providers/content-provider-creating.html#ContentURI)

[Running a Query with a Cursor Loader](https://developer.android.com/training/load-data-background/setup-loader.html)

**Step 1  
  
Project Overview**

This project is a chance for you to combine and practice everything you learned in this section of the Nanodegree program. You will be making an app to track a store's inventory.

The goal is to design and create the structure of an Inventory App which would allow a store to keep track of its inventory of products. The app will need to store information about price, quantity available, supplier, and a picture of the product. It will also need to allow the user to track sales and shipments and make it easy for the user to order more from the listed supplier.

**Why this project?**

In the most recent portion of the Nanodegree program, you learned about data storage in Android, using both SQLite tables and file storage on the device. These skills let you build apps which are critical to small businesses worldwide. By practicing these skills and building this app, you will have the foundation to build similar apps for any kind of business.

**What will I Iearn?**

This project is about combining various ideas and skills we’ve been practicing throughout the course. They include:

* Storing information in a SQLite database
* Integrating Android’s file storage systems into that database
* Presenting information from files and SQLite databases to users
* Updating information based on user input.
* Creating intents to other apps using stored information.

**Subscription vs Free-Version student**

If you are subscribed to the paid Nanodegree program, coaches will be available in the Coaches Lounge to help guide you through the final project. You will receive feedback after submitting your project and a verified certificate after successfully finishing this project.

If you are enrolled in the free version of this course, the project rubric and all of the project details are available to you.

Either way, we would love to see a description and link to your app on the discussion forum.

**Step 2:**

**Build Your Project**

Your project will be evaluated using the [Inventory App project rubric](https://review.udacity.com/#!/rubrics/163/view).

**Additional Criteria**

The intent of this project is to give you practice writing raw Java code using the necessary classes provided by the Android framework; therefore, the use of external libraries will not be permitted to complete this project.

**Step 3:**

**Prepare for Submission**

**Clean Your Build**

Before submitting, please follow the instructions for cleaning your project files. This removes some temporary files and greatly decreases the size of your project.

[Cleaning your project files](https://d17h27t6h515a5.cloudfront.net/topher/2016/June/5769c116_1000-files-tutorial/1000-files-tutorial.pdf)

**Review the Project Rubric**

Udacity reviewers will be reviewing your project based on the project rubric. All specifications must be met to pass the project.

[Project review Rubric](https://review.udacity.com/?_ga=1.168692321.1362034947.1463828731#!/rubrics/163/view)

**Final Submission Checklist**

Before submitting your project for evaluation, we recommend that you check that each of the following is true:

1. Your app compiles and runs as expected.
2. You are proud of your app and its output.
3. You completed this project according to instructions.
4. You cleaned the project using the instructions above.
5. You checked your project against the rubric.

**Zip your Project for Submission**

Be sure to zip your whole android project only after you have cleaned it.