

Lab 4
100 Points
Tablet-O-Rama
Chapter 8
(Previous chapters needed as well.)
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In our fourth lab of the semester we will create an **Android Tablet app** that incorporates the techniques and approaches discussed in Chapter 8. Your application will target **Android 5.x (Lollipop, API 22)** to create a date picker app.

This lab is a bit different than others in terms of how you may approach it. Below there are “levels” offered in terms of how difficult you determine you want to make the lab **beyond the basic requirements (Level 1) in order to attempt a higher score.**

Lab Parameters

We will not use any one of the Case Projects in detail for this lab. However, **in addition to the sample app in the chapter**, you may want to consult the Case Programming Projects at the end of the chapter, as well as view the provided videos.

Level 1 Requirements

Your horizontal tablet oriented table layout should load with information, an image, and the current time showing on the screen (via a Widget) similar to the example in Chapter8.

When the user clicks a button a **DatePickerDialog** appears that enables a user to choose a date. The current date should load in the DatePickerDialog when the app starts.

Include **radio buttons** that enable a user to select an item or service, such as selecting from different trip destinations, picking different computer configurations, various subscriptions, etc.

Once the user picks his/her date and makes an item selection, display custom output on the page that includes what they selected and a date along with other pertinent information for context.

Level 2 Requirements

In **addition to Level 1**, add a second button that opens a **different DatePickerDialog** that allows the user to choose a different date. This DatePickerDialog should start with a date **at least three days after the current date.**

The user should also be able to **select a different item or service via a spinner.**

Once the user picks his/her date and makes an item selection, display custom output on the page that includes what they selected and a date along with other pertinent information **without overwriting the original selection output from Level 1.**

Level 3 Requirements

Using a similar setup as in **Level 2**, add the following:

- A third button that controls the display of all output. **In other words, nothing is displayed until the user clicks this button.**
- Make sure one of the dates output is X number of days after a user selected date (e.g., shipping method).
- **Use additional radio buttons (or a spinner) to select options that change the number of days between events or items.** For example, one could add delivery dates according to the method selected: Postal takes 6 days, Fedex Overnight takes one day, etc. Or perhaps there are certain lengths of trips one would take (weekend, week, etc.) that would extend a return date.

Important items to note

- Follow variable and file naming conventions: self-documentation with variable names is critical
- **Use Android 5.1.1 (API 22, Lollipop) as the minimum SDK on setup**
- Use the Pixel C (preferred) or Nexus 9 (acceptable) as your tablet AVD.
- Use appropriate size settings and layouts for tablets
- Use appropriate image types and densities.
- Document every file that you create and/or change
- Include your classID as appropriate

Deliverables

The lab should be turned in as a single .zip file named with your Lab number and classID. For example, if your classID was **bjones4242** (Bubba Jones), the file would be:

Lab4bjones4242.zip

Refer to the **Documentation Guide** at for guidance on comments and lab preparation.

**When you are finished, make sure to upload
AND
submit your lab in eLearning.**