Advanced CommCare Android Formatting

WARNING: These are advanced configurations

Some of these appearances must be configured by advanced modification of forms. You can request better form builder support for these formatting options by reaching out to support@dimagi.com. All supported formatting options are listed on this page. If you use a formatting option found in XLSForms, we cannot guarantee compatibility with CommCare!

Application Preview

Please note that these configurations do not work with Application Preview or Web Apps. If you would like to confirm these advanced formatting attributes are working, you will need to test the application on a mobile device.

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Text Formatting

You can make text on CommCare Android display in bold, italics, strikethrough, and various sizes. For more information see our guide on Text Formatting.

Hint and Help Text

The Advanced Section of the Form Builder is by default collapsed/hidden since most fields are not relevant; however several items in this section are useful for formatting in CommCare Android and are described below.

Hint Message

Hint message is a special type of label text which is displayed below the label text. It appears slightly smaller and is meant to provide clarification to the question. Only the first 1-2 lines of a hint message is displayed by default, just click on the text once to see the full text.
How many goats does the household own?

*If the respondent does not know, enter "999"*
Appearance Attribute - Overview

By editing the appearance attribute or making other advanced changes in the Form Builder, you can do some very nice things with your form structure while working in CommCare for Android. The options listed here are supported as of CommCare 2.9

Most of these require you to edit the "Advanced" field of your question. This can be done via the form builder by selecting Advanced from the drop down menu immediately to the right of the red Delete button.

In the form builder the Appearance Attribute field can be found near the bottom of the Advanced section of the Question Properties:
Appearance Attribute Examples and Instructions

Single Select "Dropdown"

Here is a list of possible colors. Please choose only one!

- Green
- Blue
- Orange
- Red
How to do it

In the Advanced section of the Question Properties, set the field *Appearance Attribute* to *minimal*:

![Advanced section of the Question Properties](image)

Here is an example of the xml:

```xml
<select1 ref="/data/spinner_test" appearance="minimal">
  <label ref="jr:itext('spinner_test-label')" />
  <item>
    <label ref="jr:itext('spinner_test-1-label')" />
    <value>1</value>
  </item>
  <item>
    <label ref="jr:itext('spinner_test-2-label')" />
    <value>2</value>
  </item>
  <item>
    <label ref="jr:itext('spinner_test-3-label')" />
    <value>3</value>
  </item>
  <item>
    <label ref="jr:itext('spinner_test-4-label')" />
    <value>4</value>
  </item>
</select1>
```

Notes

If the label text of a choice is very long it may be cut off in the dropdown view. The basic rule is that the text can only be as long as the width of your device. The text will not wrap onto a second line.

**Single Select "Combo Box"**

This is similar to the single select dropdown, but it also allows you to filter the dropdown list by typing in a text box. When possible, it will also try to prevent users from entering text that is not part of a valid answer.
Standard Combobox

Apple
Applicant
Apply
Ape
Crate
Crash
Crew
Black
How to do it

There are 3 different variations of a combo box available, which use different rules for how they filter answer choices in the dropdown menu based upon the text that the user has entered:

1. Standard - This option is recommended for if your question has simple, mostly one-word answer choices. The filter matches on prefixes, i.e. entering the text “ap” would show “Apple” and “Apply”, but not “Cape”.
   a. In the Advanced section of the Question Properties, set the field Appearance Attribute to: **combobox**
2. Multiple Words - This option is recommended for if your question has more complicated, mostly multiple-word answer choices. The filter checks for matches on individual words that appear anywhere within the entered text.
   a. In the Advanced section of the Question Properties, set the field **Appearance Attribute** to: **combobox multiword**

3. Fuzzy Matching - This option is recommended for if your question has more complicated answer choices that you expect users might misspell or mistype. The filter is more permissive and will show answer choices that are deemed similar to the entered text.
   a. In the Advanced section of the Question Properties, set the field **Appearance Attribute** to: **combobox fuzzy**

**Multiple Select Dropdown**

This is similar the single select dropdown above, but for a multiple select question. In the example below you can see two multiple select dropdown questions that are in a question list group. The user pushes "select answer" and then chooses from the pop-up menu. The selected answers are then recorded on the question screen. This may work well to enable users to "confirm" the answers they have selected.
How to do it

In the Advanced section of the Question Properties, set the field Appearance Attribute to: **minimal**

**Radio Buttons with Label**

This is a way of displaying the values of a select list as circular radio buttons instead of a vertical list.
How to do it

Create a Single Select list question. In the Advanced section of the question properties set the Appearance Attribute to list.

**Combined Multiple Choice using a Question List Group**

This is a way of combining questions that have the same answers. It requires creating a "throw-away" question that is used to set the header (i.e. in the example below, "Chose for each: Yes No" is a single select question for which data is not captured.)
How to do it

You need to put all of the questions in a Question List Group.

The first question will define the headers (so you will not be able to actually record data for it). For that first question, in the Advanced section of the Question Properties, set the field Appearance Attribute to: label

The subsequent questions in the group should have appearance set to: list-nolabel

Below is an example of what this looks like in the form builder:
Below is an example of the xml.

For the first question:

```xml
<select1 ref="/data/test_combined_appearance/like_choices" appearance="label">
  <label ref="jr:itext('like_choices-label')" />
  <item>
    <label ref="jr:itext('like_choices-yes-label')" />
    <value>yes</value>
  </item>
  <item>
    <label ref="jr:itext('like_choices-no-label')" />
    <value>no</value>
  </item>
</select1>
```

For the subsequent questions:

```xml
<select1 ref="/data/test_combined_appearance/like_blue" appearance="list-nolabel">
  <label ref="jr:itext('like_blue-label')" />
  <item>
    <label ref="jr:itext('like_blue-yes-label')" />
    <value>yes</value>
  </item>
  <item>
    <label ref="jr:itext('like_blue-no-label')" />
    <value>no</value>
  </item>
</select1>
```

Notification Label
Notification labels are a special type of label text which is displayed at the bottom of the screen. It can appear in 3 different colors. It will appear based on what display condition you set in the label.

**How to do it**

1. You need to put all of the questions in a Question List Group.
2. On each label, access the Advanced section of the Question Properties. Then set the field *Appearance Attribute* to:
   a. `floating-good` - for a *green* label message
   b. `floating-caution` - for a *yellow/orange* label message
   c. `floating-bad` - for a *red* label message

**Grid View**

You can create a grid of possible answers using only images and have the user just click on the image. This works for multiple choice questions that are either single or multiple answer. You can see an example of this at the [ODK website](https://www.opendatakit.org).

**How to do it**

In the Advanced section of the Question Properties, set the field *Appearance Attribute* to: `compact`

If, for example, you want the grid to be two items across you can add "-2" so it will look like: `compact-2`

**Automatic Advancing**

You can have your form advanced to the next screen automatically upon choosing an answer. This works for single select multiple choice questions only (not for checkbox / multiple-select).

Be careful when deciding to use this because if the user accidentally chooses an answer they will be advanced to the next screen and will need to be comfortable swiping back to make the change/correction.
How to do it

In the Advanced section of the Question Properties, set the field Appearance Attribute to: quick

Note: Quick advance buttons are not supported on App Preview

Note: As of CommCare 2.45, you cannot use the appearance attribute "quick" with the last question of a form to auto-submit a form.

Automatic Advancing with Images

You can have your form advanced to the next screen automatically upon choosing an answer. This works for single select multiple choice questions only (not for checkbox / multiple-select).

Consider making this a required question, so that a button must be selected to continue.

How to do it

In the Advanced section of the Question Properties, set the field Appearance Attribute to: quick compact

For a screen, two images wide use: compact-2.

For a screen, three images wide use: compact-3.

Note: Quick advance buttons are not supported on App Preview
Selectable Label Text

By default, label text cannot be selected when filling out a form. This is to make the user interface simple and to avoid confusing mobile workers that unintentionally long-press during form entry. However, this also means that it is not possible to select and copy label text into another location.

It is possible to enable selectability of label text by changing the appearance attribute in the form builder.

How to do it

In the Advanced section of the Question Properties section set the Appearance Attribute to: selectable

Editable barcode scan result

The barcode question widget allows you to scan a barcode and store the result as a string. At times it is useful to be able to edit that string after scanning.
How to do it

In the Advanced section of the Question Properties section set the Appearance Attribute to editable

**Force capture for audio/video/image widgets**

The audio/video/image capture widgets by default allow you to either capture new media or select a file from your device. In some situations one might want force the user to capture new media and not have the option to choose a media file. This is possible by following the directions below.
How to do it

In the Advanced section of the Question Properties section set the Appearance Attribute to acquire

Single Line Numeric Entry

CommCare by default displays the questions input box in the next line to label. However, you can configure the numeric questions input to be displayed inline with the question label as shown in the image below -
How to do it

This behaviour is achieved by putting all the questions inside the Question List Group, then grouping the Question List inside a Group.

Below is an example of what this looks like in the form builder:

| Bok choy | Stock Available | 15 |
| Delivery | 100 |
|----------|-----------------|----|

| Fennel Seeds | Stock Available | 1 |
| Delivery     | 3 |

| Snap peas    | Stock Available |
| Delivery     |                |
Note: Make sure to add the appearance attribute **minimal** for all the label questions

**Limitations**

- It only works for questions with numeric input i.e. either an Integer or Decimal
- All other question components apart from question label and input doesn't show up in single line data entry. Ex- Multimedia, help text, hint text etc.
- Question label truncates itself if it doesn't fit in the available space and there is no way to see the whole text of the question currently.

**GPS Capture using Google Map**

GPS question can be configured to

1. Allow user to select his location on Google maps by clicking on “Record Location” button
2. Allow user to see the recorded location on Google maps by clicking on “Show Location” button
How to do it

In the Advanced section of the Question Properties section set the Appearance Attribute to: maps

Media Options

CommCare has some advanced options for how to display media that you include in your app.

In-line Video

Generally when adding a video to a question in CommCare, a small play button is added to the upper right corner. Clicking on this play button opens the video in the device's media player:

However it is also possible to play a video in-line within CommCare. This means the user never leaves CommCare and switches to the media player. However it also means that the video may be smaller:
How to do it:

1. Find the question/label with the place where you want the video to be
2. Under Media click video-inline
3. Upload the video using the pop up