

Name: Galory	Class number:	
Section: Block 2 Schedule: 77:50	Date: Cept	25

Lesson title: Notification and Dialogs

Lesson Objectives:

- 1. Differentiate notification and dialog
- 2. Create codes for AlertDialog statement
- 3. Evaluate Dialogs

Materials:

- Module
- Board

References:

- https://developer.android.com/training/basics/f irstapp
- https://www.tutorialspoint.com/android/index.
 htm
- https://www.javatpoint.com/android-tutorial

Productivity Tip:

You can take advantage of the mobile apps available for your phone model. You can download tutorials to make references available to you immediately. You can use Google suite or apps manage schedules, notes, communication, messaging, email and more at no cost. Take advantage of many Android apps that allows you to manage your time, records, etc.

A. LESSON PREVIEW/REVIEW

1) Introduction (2 mins)

Welcome to our new lesson!

Did you experience that you get no feedback from an application? You have no idea what is happening? It looks like the app has stopped working or lagging.

As a developer, you should anticipate many possible situations during the operation of your app. Be reminder that the app is not a person who can easily make reactions and talk back to the other person when needed.





With this, you should make your app more intelligent by making it communicate with the user whenever it is necessary to give the user important information or requiring users to respond or confirm something.

Dialog promotes better understanding on the part of the user. The timely information will help the user reduce misunderstandings and tensions and help ensure more successful interaction with your application.

Our lessons notification and dialog allow the app to be like a person talking to a client. So that the user feels comfortable that he/she got



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relevant information as the situation requires it.

2) Activity 1: What I Know Chart, part 1 (3 mins)

What I Know	Questions:	Markette
A message from your	1. What is notification?	What I Learned (Activity 4) A Message that alsophu
t mercoes was the		your apple normal let
it message where will make overcions	2. What is Dialog?	A mescage where used
It's a seenings for	3. What is notification channel?	Interact to it
lugar to choose	and the smeather charmers	t gettings where
what they		their notice when

B.MAIN LESSON

warma do w/ notifs

receive

1) Activity 2: Content Notes (13 mins)

Notifications

- A message your app displays to the user outside your app's normal UI.
- When an app tells the system to issue a notification, the notification appears to the user as an icon in the notification area, on the left side of the status bar.
- If the device is unlocked, the user opens the notification drawer to see the details of the notification. If the device is locked, the user views the notification on the lock screen. The notification area, lock screen, and notification drawer are system-controlled areas that the user can view at any time.

4:23 PM 711 The Big Meeting New Google+ notifications Screenshot captured

App icon badge

- Its appearance slightly when the app has a new notification to show to the user.
- The app icon shows a colored badge, also known as a notification dot, as shown on four of the five app icons in the screenshot below.

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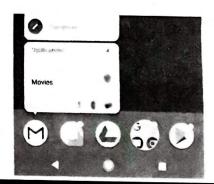




Notification menu

- To see the notification for an app with a notification dot, the user longpresses the app icon.
- The notification menu appears and the user dismisses the notification or acts on it from the menu.
- This is similar to the way the user interacts with a notification in the notification drawer.



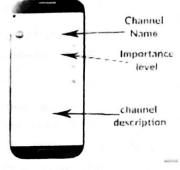




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Notification channels

- In the Settings app, users can adjust the notifications they receive.
- Starting with Android 8.0 (API level 26), you can assign each of your app's notifications to a notification channel.
- Each notification channel represents a type of notification, and you can group several notifications in each channel.
- Notification channels are called **Categories** in the user-visible Settings app.



Importance level

- The channel's importance determines the **instrusiveness of the notifications** posted in that channel.
- Types:
 - Urgent Notifications make a sound and appear as heads-up notifications.(IMPORTANCE_HIGH)
 - High Notifications make a sound (IMPORTANCE_DEFAULT)
 - o Medium Notifications make no sound (IMPORTANCE_LOW)
 - Low Notifications make no sound and do not appear in the status bar (IMPORTANCE_MIN)

Initial settings

Example: notificationChannel.enableLights(true);

notificationChannel.setLightColor(Color.RED); notificationChannel.enableVibration(true);

notificationChannel.setDescription("Notification from Mascot");

Notification channel

- Example: if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {

NotificationManager mNotificationManager = (NotificationManager)

getSystemService(Context.NOTIFICATION_SERVICE);

mNotifyManager.createNotificationChannel(notificationChannel);

Creating notifications

- Create a notification using the NotificationCompat.Builder class.
- Example:

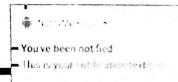
NotificationCompat.Builder mBuilder = new NotificationCompat.Builder(this, CHANNEL_ID);

Set notification contents

- You can assign components to the notification like a small icon, a title, and the notification message.
- Example:

NotificationCompat.Builder mBuilder = new NotificationCompat.Builder(this, CHANNEL_ID)

- .setSmallIcon(R.drawable.android_icon)
- .setContentTitle("You've been notified!")
- .setContentText("This is your notification text.");





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Set the intent for the notification's tap action

- Every notification must respond when it is tapped, usually by launching an Activity in your app.
- To launch an Activity in your app, set a content intent using the setContentintent() method.
- Example:

// Create an explicit intent for an Activity in your app Intent contentintent = new Intent(this, ExampleActivity.class); PendingIntent pendingContentIntent = PendingIntent.getActivity (this, 0, contentIntent, PendingIntent.FLAG_UPDATE_CURRENT); // Set the intent that will fire when the user taps the notification mBuilder. set Content Intent (pending Content Intent);



Add notification action buttons

- Notification action buttons allow the user to perform an app-related task without launching the app.
- Example:

mBuilder.addAction(R.drawable.car, "Get Directions", mapPendingIntent);

Expandable notifications

- Notifications in the notification drawer appear in two main layouts, normal view and expanded view.
- To create notifications that appear in an expanded layout, use setStyle() method:
- Options:

NotificationCompat.BigTextStyle NotificationCompat.InboxStyle NotificationCompat.MediaStyle NotificationCompat.MessagingStyle NotificationCompat.BigPictureStyle

- for large-format notifications that include a lot of text.
- for displaying a list of summary lines
- for media playback notifications.
- to display sequential messages in an ongoing conversation. - for large-format notifications that include large image

Example:

NotificationCompat notif = new NotificationCompat.Bullder(mContext, channelld)

- .setContentTitle("New photo from " + sender.toString())
- .setContentText(subject)
- .setSmallIcon(R.drawable.new_post)
- .setLargelcon(aBitmap)
- .setStyle(new NotificationCompat.BigPictureStyle().bigPicture(aBigBitmap)
- .setBigContentTitle("Large Notification Title"))
- .setContentIntent(notificationPendingIntent)
- .setPriority(NotificationCompat.PRIORITY_HIGH)
- .build();

Dialogs

- It is a small window that prompts the user to make a decision or enter additional information.
- It does not fill the screen and is normally used for modal events that require users to take an action before they can proceed.



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AlertDialog

- A dialog that can show a title, up to three buttons, a list of selectable items, or a custom layout.

DatePickerDialog or TimePickerDialog

A dialog with a pre-defined UI that allows the user to select a date or time.

DialogFragment

 It provides all the controls you need to create your dialog and manage its appearance, instead of calling methods on the Dialog object.

Building an Alert Dialog

It allows you to build a variety of dialog designs and is often the only dialog class you'll need.

Creating a Dialog Fragment

- You can accomplish a wide variety of dialog designs by extending DialogFragment and creating a AlertDialog in the onCreateDialog() callback method.
- Example:

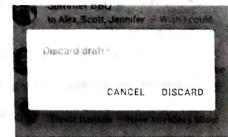
```
public class FireMissilesDialogFragment extends DialogFragment {
  @Override
  public Dialog onCreateDialog(Bundle savedInstanceState) {
    // Use the Builder class for convenient dialog construction
   AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());
   builder.setMessage(R.string.dialog_icon)
       .setPositiveButton(R.string.fire, new DialogInterface.OnClickListener() {
         public void onClick(DialogInterface dialog, int id) {
           // Do something
         }
       })
       .setNegativeButton(R.string.cancel, new DialogInterface.OnClickListener() {
         public void onClick(DialogInterface dialog, int id) {
           // User cancelled the dialog
         }
      }):
  // Create the AlertDialog object and return it
  return builder.create();
```

There are three different action buttons you can add:

- 1. Positive Use this to accept and continue with the action (the "OK" action).
- 2. Negative Use this to cancel the action.

}

3. **Neutral** - Use this when the user may not want to proceed with the action, but doesn't necessarily want to cancel.





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dding a list			-1,1967959 -/ 3
A traditional single-choice list			Onion
A persistent single-choice list (radio buttons) A persistent multiple of	Red		was a state of the
- A persistent multiple-choice list (checkboxes) - Example:			Lettuce
- Example:	Green		Tomato
@Override	Blue	1	Concel OK
public Dialog onCreateDialog(Bundle savedInstance	State) {		
AlertDialog.Builder builder = new AlertDialog.Bui builder.setTitle(R.string.pick_color)	lder(getActivity());		
.setItems(R.array.colors_array, new DialogInt public void onClick(DialogInterface dialog	erface.OnClickListe	ner() {	
public void onClick(DialogInterface dialog, // Do something here	int which) {		
}		-	
));		100	the control of
return builder.create();			emeralist 1911
}			
		Username	•
reating a Custom Layout			
Create a layout and add it to an AlertDialog by calling so	etView() on	Password	0
your Alei (Dialog.Builder Object.			N 200
Use AlertDialog.Builder methods to add buttons and a	title	Cancel	Sign in
2) Activity 3: Skill-building Activities (with answer ke	y) (18 mins + 2 mins	checking)	
A. Identify the following (10 points) Official 1. It is the message you app displayed to	send feedback to u	ser.	
1. It is the message you app displayed to	send feedback to u	ser.	
2. It is the message you app displayed to 2. It is contains details of the notification 2. It contains notifications received.	send feedback to u	ser.	
1. It is the message you app displayed to rection from 2. It is contains details of the notification received. 3. It contains notifications received.	· management	ser.	
1. It is the message you app displayed to contain the notification and the notification are seried. 3. It contains notifications recevied. 4. It is also called notification dot. 60100 Menu 5. It show options for user to act on in the	. notification	ser.	
1. It is the message you app displayed to chion bower 2. It is contains details of the notification action for the property of the province of	notification.		
1. It is the message you app displayed to chin here. 2. It is contains details of the notification action here. 3. It contains notifications recevied. 4. It is also called notification dot. 5. It show options for user to act on in the chin china. 6. It contains settings for an app's notification. 7. It is another to communicate with the	notification. cation. user and make dec	ision to act on i	t.
1. It is the message you app displayed to communication and the notification are contains notifications recevied. 3. It contains notifications recevied. 4. It is also called notification dot. 6. It show options for user to act on in the communicate with the communicate with the communicate with the communicate. 6. It is another to communicate with the communic	notification. cation. user and make dec	ision to act on i	t. ns.
1. It is the message you app displayed to the notification to the notification and the notification service. 3. It contains notifications recevied. 4. It is also called notification dot. 6. It show options for user to act on in the communicate with the notification dot. 7. It is another to communicate with the notification dot. 8. It is used to show app's status/feedback of the notification dot. 1. It is used to choose date.	e notification. cation. user and make dec ck with title, buttons	ision to act on i	ns.
1. It is the message you app displayed to the notification action for pool 4. It is also called notification dot. 1. It is the message you app displayed to the notification of the notification received. 2. It is contains notifications received. 3. It is also called notification dot. 4. It is also called notification dot. 5. It show options for user to act on in the contains settings for an app's notification change. 7. It is another to communicate with the contains app's status/feedback. 8. It is used to show app's status/feedback.	e notification. cation. user and make dec ck with title, buttons	ision to act on i	ns.
1. It is the message you app displayed to communicate with the communicate with the communicate with the communicate with the content of the communicate with the content of the communicate with the content of the communicate communicate communicate content of the content of the communicate with the content of the conten	e notification. cation. user and make dec ck with title, buttons nce, calling method	ision to act on i s, selectable iter s on the dialog.	ns.
1. It is the message you app displayed to common power 2. It is contains details of the notification action power 3. It contains notifications recevied. 1. It is also called notification dot. 1. It is also called notification by all the notification dot. 1. It is also called notification by all the	e notification. cation. user and make dec ck with title, buttons nce, calling methods g requirements(10 p	ision to act on i s, selectable iter s on the dialog. points)	ns.
1. It is the message you app displayed to common town 2. It is contains details of the notification action for a series and a series an	e notification. cation. user and make dec ck with title, buttons nce, calling methods g requirements(10 p	ision to act on i s, selectable iter s on the dialog. points)	ns.



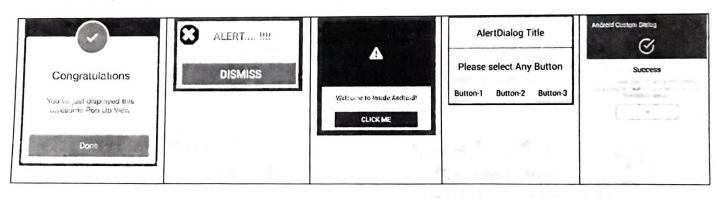
Name: Jaine Golang Section: Place 2 Schedule 3:30	Class number:
3. Set the icon myBitmap to Large:	. set large Icon (My Bitmap)
4. Set the priority to HIGH :	cetanistic (polification compat. YRISRITY-HE
5. Set content intent:	. set Content Intent (notification Ponding Intent)
6. Set the icon to small using myicon at drawable	. set Small Icon (P. drawable · new_post)
7. Set the text to mymessage:	. Set Content text (subject)
8. Set the icon to large using myicon at drawable	. Set Lorge I con (R. drawable .now-post)
9. Set the content title to"Android":	· set Content Title ("Android")
10. Build:	, build ()

Check your answers against the **Key to Corrections** found at the end of this SAS. Write your score on the **top** right of page #1.

3) Activity 4: What I Know Chart, part 2 (2 mins)

Please visit the What I Know Chart from Activity 1 and write your answers to the questions based on what you now know in the third column of the chart.

- 4) Activity 5: Check for Understanding (5 mins)
 - A. Give your honest assessment on the following dialogs. (10 points)





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Reason: It is neat R Ord who knierow Ond have a good Dates for the Unex's	late (1 worst to 5 lest): leason: [Lnecesscry Exclangtion tere c already a close Coon and also Dismiss. Redundan	3. Rate (1 worst to 5 best): ? Reason: The Fuch Mother Emage ic taking Gli the conce	A. Rate (1 worst to 5 best): 2 Reason: The placem on of the validation on rect reserver wars wouldn't know what they are Clicking	and surcractive

Check your answers against the **Key to Corrections** found at the end of this SAS. Write your score on the **top** right of page #1.

C. LESSON WRAP-UP

1) Activity 6: Thinking about Learning (5 mins)

You are done with this module! Track your progress. Circle the day/s you are already done!

F	er	iod	1				^			Peri	od 2							Peri	od 3							
_1		2	3	4	5	6	P	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

2) Think about your learning by filling up your "My Learning Tracker". Please write the learning targets, your scores, learning experience for this session and plan for the next session.

Date	Learning Target/Topic	Scores	Action Plan What contributed to the quality of your performance today? What will you do next session to maintain your performance or improve it?				
What's the date today?	What module# did you do? What were the learning targets? What activities did you do?	What were your scores (out of 20 points) in the activities?					
	Write your answer below (Use the back page	for more space for your answer)				
Sept es 2020	#7, I leaned about notification and diff types		I scarred by roles for references				

FAQs

- 1. Can I customize the dialog? Yes.
- 2. Can I connect the dialog to a method? Yes.
- 3. Can I add an image to a dialog? Yes.

HOMEWORK (Performance Task):

- 1. Go to https://classroom.google.com/. Login using your Gmail account
- 2. Join and type the class code xv2lu2q. Go to Classwork Tab



Name: Jainus Gabna		Class number:
Section: Mock 2 Schedule: 7	30 - 9:30	Date:
 Perform at <u>least one</u> project in <u>Chapt</u> homework (PDF) and project files (RA viewing. NOTE: 	AR) are included. You can also	er accomplished in the homework.
 a. Additional points will be granted b. Compress your project folder at name. For example <u>1BSIT -COC</u> 		
c. Send it to	-1-leables joinnes	(teacher
Email address or Google Drive a	ddress)	
KEY TO CORRECTIONS		
2) Activity 3: Skill-building Activities (with	answer key) (18 mins + 2 m	ins checking)
	ification. (Notification drawed. (Notification badge) (Notification badge) on in the notification. (Notification on the notification. (Notification on the user and make decisted back with title, buttons, ePickerDialog) opearance, calling methods	cation menu) channel) cion to act on it. (Dialog) selectable items. (AlertDialog) on the dialog (DialogFragment)
B. Continue the given code to meet the fo		
NotificationCompat notif = new NotificationCon	npat.Builder(mContext, cha	nnelld)
1. Set the content title to"Welcome to PHINMA!":	.setContentTitle("Welcom	e to PHINMA!")
2. Set the title to"Hello" Big Text:	.setBigContentTitle ("Hello	»")
3. Set the icon myBitmap to Large:	. set Large I con (my Bit map)	
4. Set the priority to HIGH:	.setPriority(NotificationCo	mpat.PRIORITY_HIGH)
5. Set content intent:	.setContentIntent(notifica	tionPendingIntent)
6. Set the icon to small using myicon at drawable	.setSmallicon(R.drawable	new_post)
7. Set the text to mymessage:	.setContentText(subject)	
8. Set the icon to large using myicon at drawable	.setLargelcon(R.drawable	new_post)
9. Set the content title to"Android":	.setContentTitle("Android	l")



Name: Jains Golarg Section: Block 2 Schedule:	7:30 - 9:36	Class number:
10. Build:	.build()	

Activity 5: Check for Understanding (5 mins)

A. Give your honest assessment on the following dialogs. (10 points)

No key answer. It is for teacher discretion to give the appropriate score based on the understanding of the student on what makes a good dialog thru assessing various dialogs existing.