

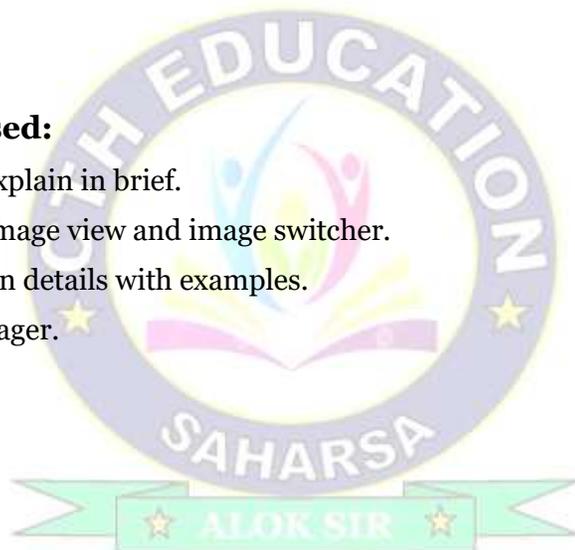


Unit – 04:

- Menus-Option,
- Context,
- Popup,
- Images-Image View,
- Image Switcher.
- Alert Dialog,
- Alarm manager.
- SMS,
- E-mail,
- Media Player,
- Handling Telephony Manager.

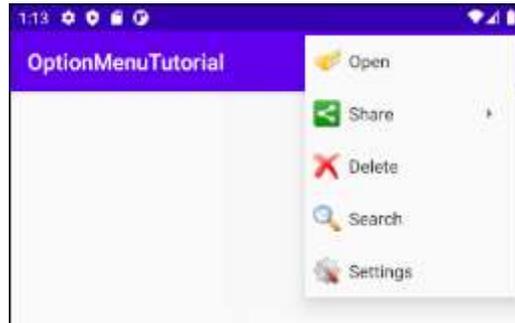
Questions to be discussed:

1. What is menu option? Explain in brief.
2. Explain in details about image view and image switcher.
3. What is E-mail? Explain in details with examples.
4. Discuss about alarm manager.
5. Write short notes on:
 - a. Pop-up
 - b. Alert dialog
 - c. Context
 - d. SMS
 - e. Media player



Menus Option:

- Menus are a common user interface component in applications.
- It should use to present user actions and other options in your activities.
- The options menu is the primary collection of menu items for an activity.
- When and how this item should appear as an action is decided by the Show Action attribute.
- They can be used for open, share, settings, searching, deleting items, etc.



Context:

- Context represents any information.
- It can be used to characterize the situation of an entity.
- An entity is a person, place or object that is considered as interaction between user and an application.
- Context can take many forms, including background information or details about the circumstances, or timeframe in which a work takes place.
- Example: A devices that change their screens and backlighting according to the amount of light in the room where they are being used.

Pop-up:

- A pop-up is a GUI that suddenly appears in the foreground of the visual interface.
- Pop-ups are web browser windows or dialogue boxes that open without any user action.
- There are two main categories of pop-up:
 1. Computer dialogue boxes
 2. Advises window

Computer dialogue boxes:

- It appear as a pop-up window on your desktop or mobile device.
- It is used to communicate relevant information from a computer or application to you.
- Sometimes this pop-up appears when it's necessary for you to enter a password.
- Example: when you make a purchase on your smartphone and need to enter your password to authorize the purchase.

Alert window:

- This pop-up often appears on the window that alert you that a step you're trying to perform isn't allowed and requires a different keystroke or command.
- These types of pop-ups on computers and device facilitate a method of alerting you that some action is necessary.



Image View:

- Image view is used to display any kind of image file in the application.
- It is also used to control the size and movement of an image.
- Image View comes with different configuration options to support different scale types.
- Scale type options are used for scaling the bounds of an image to the bounds of the image view.
- Some of them scale types configuration properties are center, center_crop, fit_xy, fitStart etc.

Image Switcher:

- In certain cases, you may not want an image to appear abruptly on screen.
- You would prefer that its transition from one image to another with some kind of animation.
- Android supports this in the form of Image Switcher.
- An image switcher allows you to add some transitions to the images through the way they appear on the screen.

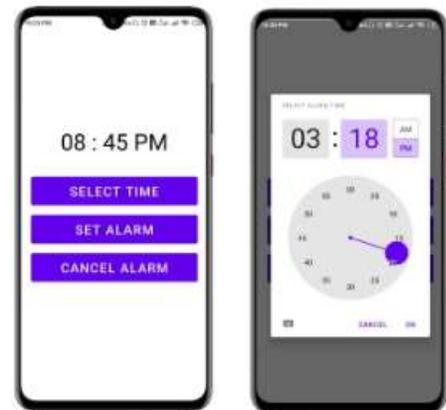
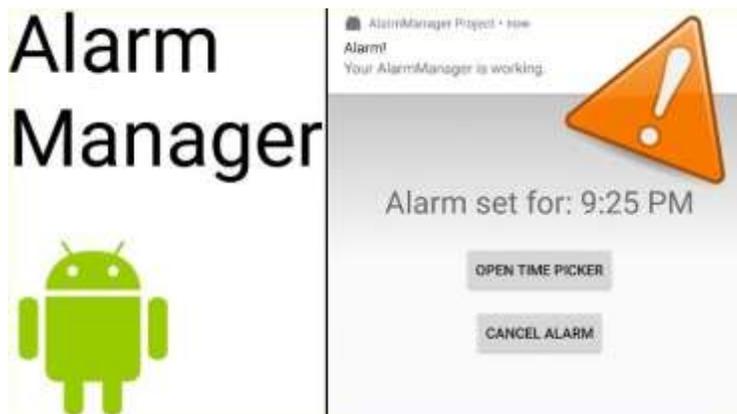
Alert Dialog:

- A dialog is a small window that prompts the user to make a decision or enter additional information.
- Alert Dialog can be used to display the dialog message with OK and Cancel buttons.
- It displays the message to warn you and then according to your response, the next step is processed.
- It can be used to interrupt and ask the user about his/her choice to continue or discontinue.
- Android Alert Dialog is built with the use of three fields: Title, Message area, and Action Button.



What is an alarm manager?

- Alarm Manager allows you to access system alarm.
- By the help of Alarm Manager, you can schedule your application to run at a specific time in the future.
- It works whether your phone is running or not.
- Alarm Manager is a bridge between application and Android system alarm service.
- Example, you could use an alarm to initiate a long-running operation, such as starting a service once a day to download a weather forecast.



What is SMS?

- SMS stands for Short Message Service.
- SMS is a form of text message that's sent from one device to another.
- It is a service for sending short messages of up to 160 characters to mobile devices, including cellular phones and smart phones.
- That very first text, sent on the 3rd December 1992, simply said, "Merry Christmas."
- Engineer Neil Papworth sent the world's first SMS to the Vodafone director **Richard Jarvis**.

What is an E-mail?

- E-mail stands for Electronic Mail.
- It is a method to send messages from one computer to another computer through the internet.
- E-mail is a communication system that sends and receives messages by using a specific e-mail address.
- E-mail address consists of two parts: first part @ second part.
- In the first part, a user can give any name according to choice.
- The second part is the domain name that indicates the mail server on which you are going to create the e-mail id.
- Email services started in 1971 by Ray Tomlinson.

Example:

abc@gmail.com

xyz@yahoo.com

mnp@rediffmail.com

pqr@hotmail.com



Media player:

- Media player is an application software.
- It is used for playing multimedia files like audio and video.
- For example, many media players today are capable of playing audio files such as playing an MP3 song file and video files such as a short video clip or movie.
- Examples of media players: iTunes, Media Monkey, VLC, Windows Media Player etc.



Telephony Manager:

- Telephony manager provides us the functionalities of the mobile.
- It gives us information about functionalities like calls, SMS, MMS, IMEI number, and so on.
- It also provides information about the telephony services such as subscriber id, sim serial number, phone network type etc.
- Applications can use the methods in this class to determine telephony services and states, as well as to access some types of subscriber information.
- Applications can also register a listener to receive notification of telephony state changes.