Q1) Mobile ecosystem consists of different operators, networks & devices. How the knowledge of this will help in improving mobile based applications design.

Ans:

- Mobile ecosystem is a group of devices, platforms, software, companies and the united set of services offered by a mobile device company.
- It also includes the device hardware, OS, App store and user account.
- A mobile device is a general term for any type of handheld computer.
- These devices are designed to be extremely portable and they can often fit in your hand.
- A mobile application platform is a group of software tools used for designing, creating and maintaining mobile applications.
- It provides mobile application tools for development.
- It supports mobile application development using various tools for different programming languages.
- It also offers an application programming interface (API) to allow interactivity between software packages.
- It can be used to share or transfer data from one device to another.
- The base layer in the mobile ecosystem is the operator.
- It can be referred to as Mobile Network Operators, mobile service providers, wireless or simply carriers, mobile phone operators or cellular companies.
- A mobile network is a communication network where the last link is wireless.
- Operators sell devices at a severely discounted price often 1/3rd or less of the actual cost of the device.
- This enables the operators to lock the devices to their networks.

Q2) Moviles are considered 7th Mass media. How is it entering the remaining 6 mass media?

Ans:

- Mobile is the 7th mass media which is as much superior to the network, as TV is to radio.
- It is the first personal mass media
- It is permanently carried.
- It is always on and has a built-in payment mechanism.
- It is available at the point of creative inspiration and has the most accurate audience measurement.
- It captures the social context of media consumption.
- It is also referred to as the fourth screen.
- It is a diverse array of media technologies that reach a large audience via mass communication.
- The technologies through which this communication takes place includes a variety of outlets.
- It is growing and heavily capturing business revenue and content from its earlier mass media.
- The consumption of news, music, watching TV, radio, movies are all possible on a mobile device.
- It is also referred to as 2nd interactive media.

Q3) Distinguish between primary and secondary windows.

Ans:

) Primary Window:

- 1. The primary window is the first window which appears on the screen when activity or action is started.
- 2. Primary window represents an independent function or application.
- 3. Primary window is used to present information that is continually updated for example: Date and time.
- 4. Figure 6.1 represents primary window

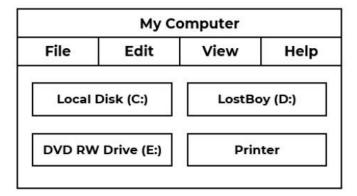


Figure 6.1: Primary Window

II) Secondary windows:

- 1. Secondary windows are supplementary windows.
- Secondary windows may be dependent upon a primary window or displayed independently of the primary window.
- 3. Secondary windows are used for performing subordinate, supplementary or ancillary actions.

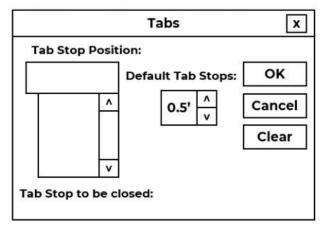


Figure 6.2: Secondary Window

Menu Bar vs. Status Bar

6. Menu Bar:

- A menu bar is used to organize and provide access to actions.
- It is located horizontally at the top of the window, just below the title bar.
- A menu bar contains a list of topics or items that, when selected, are displayed on a pull-down menu beneath the choice.

7. Status Bar:

- Information of use to the user can be displayed in a designated screen area or areas.
- They may be located at the top of the screen in some platforms and called a status area, or at the screens bottom.
- Microsoft recommends the bottom location and refers to this area as the status bar.
- It is also referred to by other platforms as a message area or message bar.

Overlapped vs. Cascaded windows:

II) Overlapping Windows:

- 1. Overlapping windows may be placed on top of one another like papers on a desk.
- 2. They possess a three-dimensional quality, appearing to lie on different planes.
- 3. Size of the overlapping window can be altered.
- 4. Location as well as the plane of the windows is user controlled.
- Figure 6.9 represents overlapping windows.

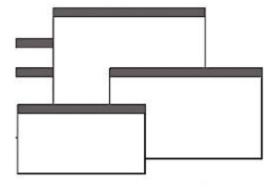


Figure 6.9: Overlapping Windows.

Advantages:

- 1. Visually, their look is three-dimensional, resembling the desktop that is familiar to the user.
- 2. Greater control allows the user to organize the windows to meet his or her needs.
- Windows can maintain larger sizes.
- 4. Windows can maintain consistent sizes.
- 5. Windows can maintain consistent positions.
- Screen space conservation is not a problem, because windows can be placed on top of one another.
- They yield better user performance for tasks where the data requires much window manipulation to complete the task.

III) Cascading Windows:

- It is a special type of overlapping window.
- It has the windows automatically arranged in a regular progression.
- Each window is slightly offset from others, as illustrated in Figure 6.10.
- **♥ Handcrafted by BackkBenchers Community**

Chap - 6 | Interaction Styles & Communication

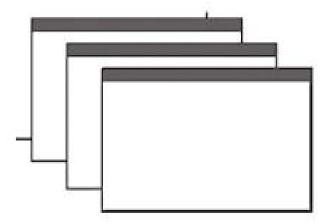


Figure 6.10: Cascading Windows.

Advantages:

- No window is ever completely hidden.
- 2. Bringing any window to the front is easier.
- It provides simplicity in visual presentation and cleanness.

Q4) How will the usability improve using status information and warning messages, words, images and icons?

Ans:

- 1. Status Message:
 - It is used to provide information relating to the progress of a lengthy operation.
 - It provides the progress of a function using an indicator and short message describing the type of operation being performed.

2. Information Message:

- It provides information about the state of the system when it is not immediately obvious to use.
- It is used to provide feedback when normal feedback is delayed.

3. Warning message:

- It calls for an action for a particular situation or state of activity being processed.
- It also drives the user's immediate attention for an undesired situation.

4. Words:

- Minimal use of words should be done that calls the attention of the user.
- We should avoid usage of words in general and use them well.

5. Images:

- Standard images can be used but image internationalization should be possible.
- Distinguishing navigational images from decorative images is required.
- We should minimize no. of presented images and size of image and animation used in images.

6. Icons:

- They are images used to reflect the idea about object icons.
- They are often used to represent objects and actions with which users can interact or manipulate.
- They may separate on a desktop or in a window or be clubbed together in a toolbox.