EXPERIMENT 1

ITA0305-Mobile Computing For App Development

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1.Use Figma to create an interactive diagram illustrating the components of a basic cellular system.

Aim: -

To create an interactive diagram illustrating the components of a basic cellular system

Procedure: -

- 1. open Figma
- 2. Create a new file
- 3. Select the Frames
- 4. Fill in the content that is required for presentation
- 5. Design Visual Elements
- 6. Make it Interactive
- 7. Add Annotations and Explanations
- 8. Incorporate Multimedia
- 9. Storyboard Animation
- 11. Review and edit the Prototype
- 12. Save and Share

Design: -

Basic Cellular System

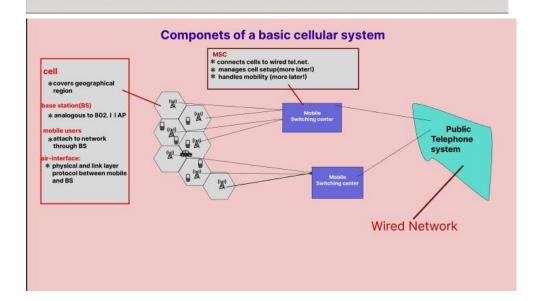
There are mainly two types of Basic Cellular System:

1.Circuit Switched:

In a circuit-switched system, each traffic channel is dedicated to a user until its cell is terminated.

2.Packet Switched:

In packet-switching, the packets are sent towards the destination irrespective of each other. Each packet has to find its own route to the destination. There is no predetermined path; the decision as to which node to hop to in the next step is taken only when a node is reached. Each packet finds its way using the information it carries, such as the source and destination IP addresses.

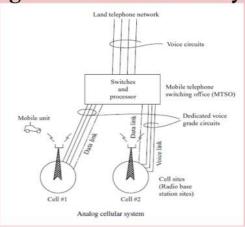


Analog Circuit-Switched System

A basic analog cellular system consists of three subsystems:

- 1. A Mobile Unit
- 2. A Cell Site
- 3. A Mobile Telephone Switching Office (MTSO) with CONNECTIONS to link the three subsystems

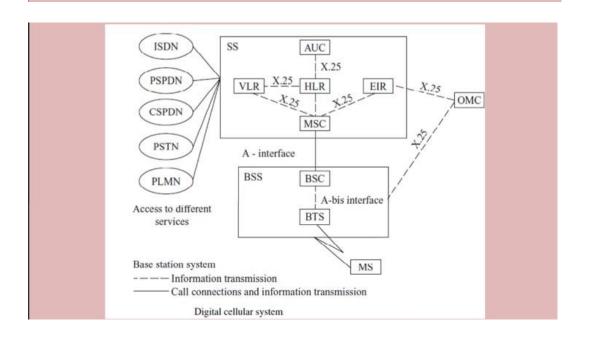
Analog Circuit-Switched System



Digital Circuit-Switched System

A Basic Digital System consists of four elements:

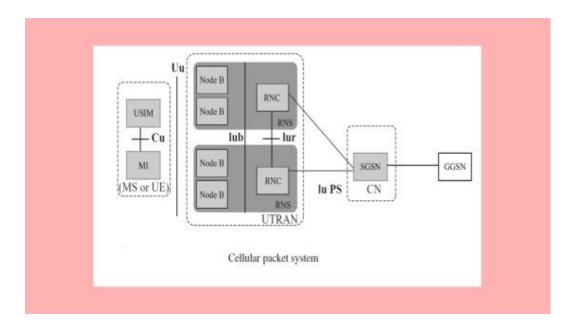
- 1. Mobile Station
- 2. Base Transceiver Station (BTS)
- 3. Base Station Controller (BSC)
- 4. Switching Subsystems



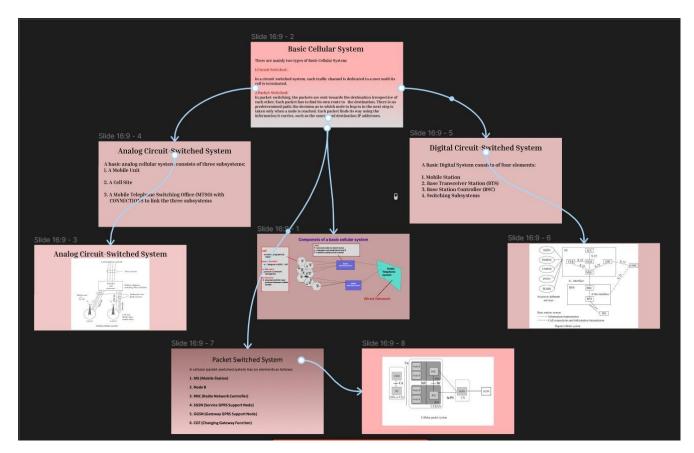
Packet Switched System

A cellular packet-switched system has six elements as follows:

- 1. MS (Mobile Station)
- 2. Node B
- 3. RNC (Radio Network Controller)
- 4. SGSN (Service GPRS Support Node)
- 5. GGSN (Gateway GPRS Support Node)
- 6. CGF (Changing Gateway Function)



Prototype: -



Result: -

Hence an interactive diagram illustrating the components of a basic cellular system using Figma is created and executed successfully