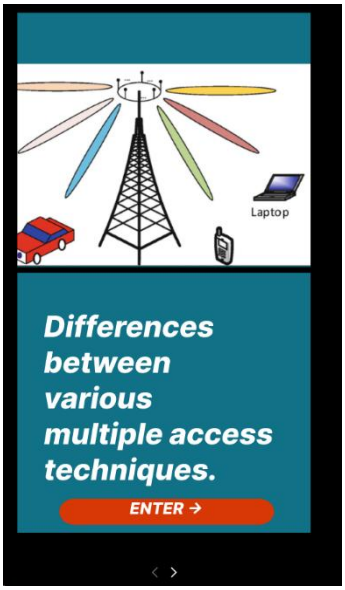
:10. Create a visual representation in Figma showcasing the differences between various multiple access techniques.

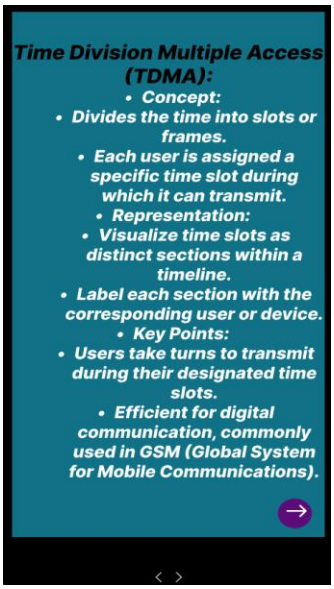
Aim: To create a visual representation in Figma showcasing the differences between various multiple access techniques.

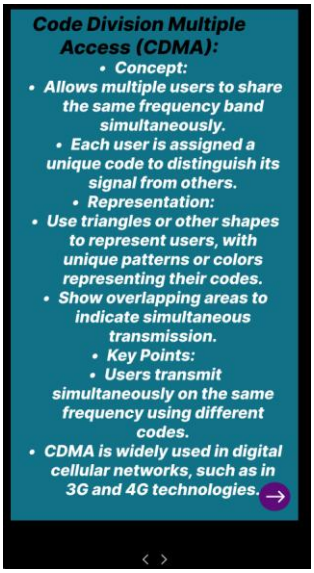
Procedure:

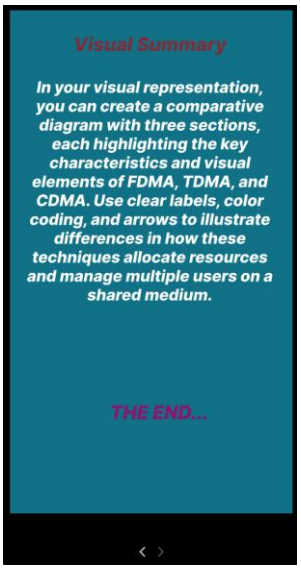
1. Open Figma
2. Create a new file
3. Select the Frames
4. Fill in the content that is required for presentation
5. Design Visual Elements
6. Make it Interactive
7. Add Annotations and Explanations
8. Incorporate Multimedia
9. Storyboard Animation
10. Review and edit the Prototype
11. Save and Share

Design :




Time Division Multiple Access (TDMA):
• Concept:
• Divides the time into slots or frames.
• Each user is assigned a specific time slot during which it can transmit.
• Representation:
• Visualize time slots as distinct sections within a timeline.
• Label each section with the corresponding user or device.
• Key Points:
• Users take turns to transmit during their designated time slots.
• Efficient for digital communication, commonly used in GSM (Global System for Mobile Communications).


Code Division Multiple Access (CDMA):
• Concept:
• Allows multiple users to share the same frequency band simultaneously.
• Each user is assigned a unique code to distinguish its signal from others.
• Representation:
• Use triangles or other shapes to represent users, with unique patterns or colors representing their codes.
• Show overlapping areas to indicate simultaneous transmission.
• Key Points:
• Users transmit simultaneously on the same frequency using different codes.
• CDMA is widely used in digital cellular networks, such as in 3G and 4G technologies.



Result:

Hence created a visual representation in Figma showcasing the differences between various multiple access techniques.