4. Create a visual representation in Figma highlighting the key elements of mobile network protocol stacks.
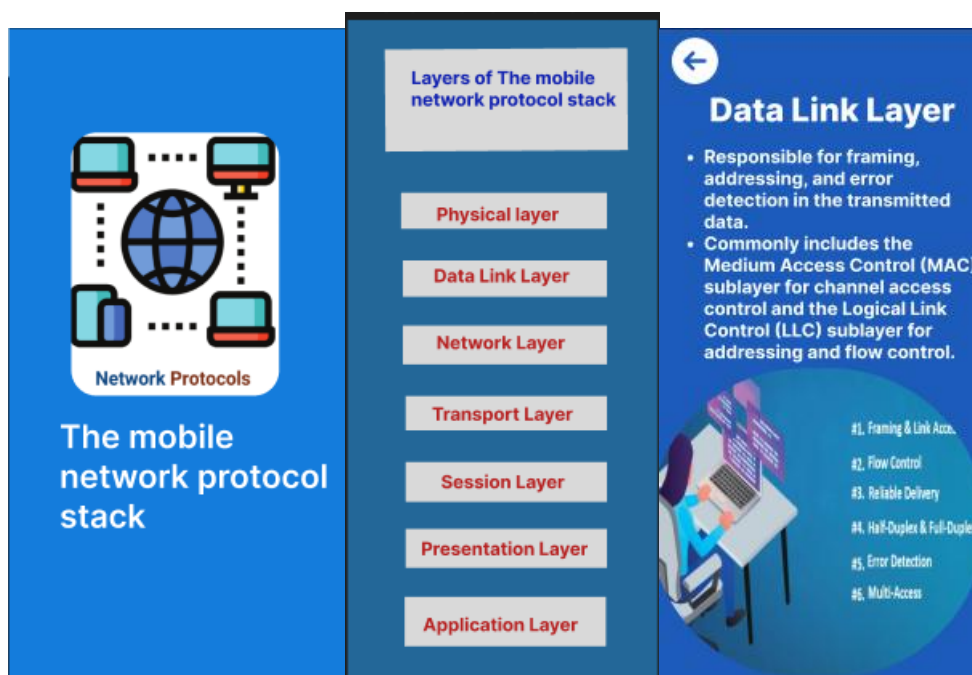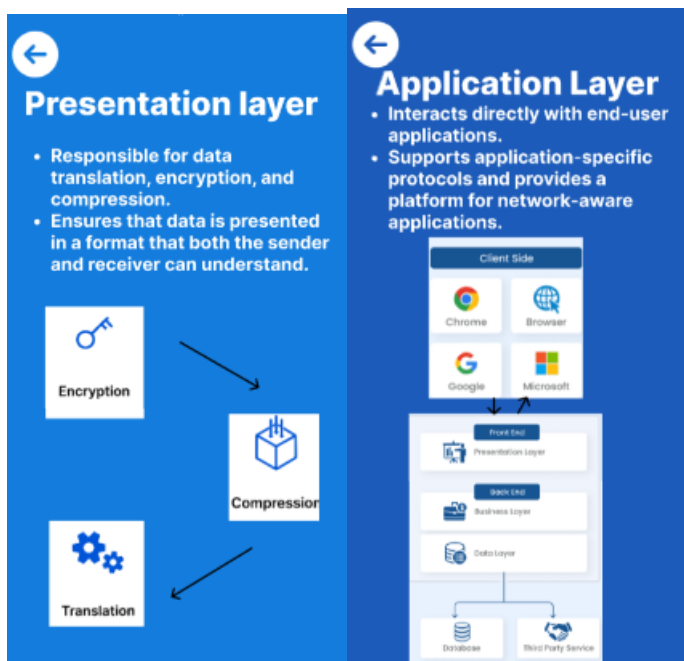
Aim: -
Design a visual representation in Figma highlighting the key elements of mobile network protocol stacks.

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: -

Network Layer

- Manages the logical addressing and routing of data packets between devices on different networks.
- Key protocols include the Internet Protocol (IP), which provides unique addresses for devices and facilitates routing.

Transport Layer

- Ensures end-to-end communication and data integrity.
- Transmission Control Protocol (TCP) is commonly used for reliable, connection-oriented communication, while User Datagram Protocol (UDP) is used for connectionless communication.

Segmentation

Transport

Reassembly

session Layer

- Manages sessions or connections between devices.
- Handles the establishment, maintenance, and termination of sessions.

SERVER's

Client

Authentication

Request

Session Established

Respond

Authorization

Presentation layer

- Responsible for data translation, encryption, and compression.
- Ensures that data is presented in a format that both the sender and receiver can understand.

Encryption

Compression

Translation

Application Layer

- Interacts directly with end-user applications.
- Supports application-specific protocols and provides a platform for network-aware applications.

Client Side

Chrome

Browser

Google

Microsoft

Front End
Presentation Layer

Back End
Business Layer

Data Layer

Database

Third Party Service

Prototype: -

Result: -

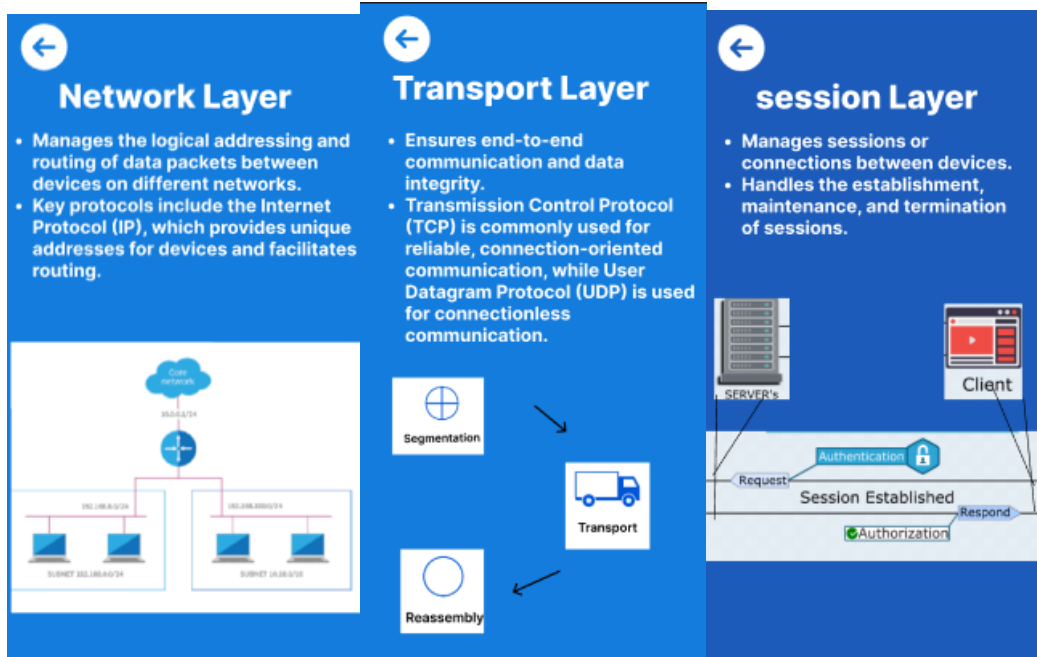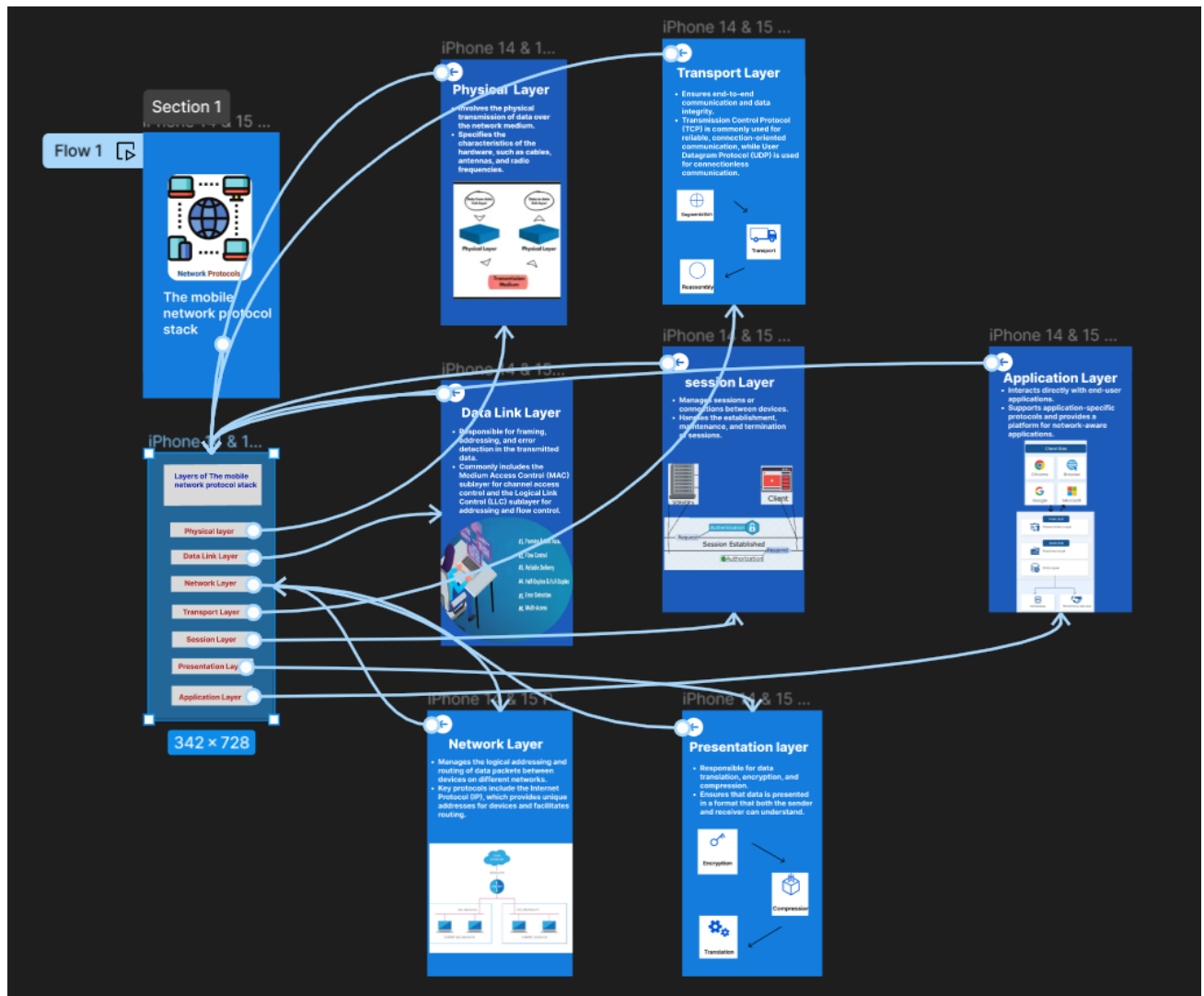Hence the visual representation in Figma highlighting the key elements of mobile network protocol stacks is created and executed successfully