

K-9 Packet Sniffer

Project Manager – Full Stack Dev

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PROBLEM

Network administrators and security professionals often rely on tools like Wireshark to capture and analyze network traffic. However, the absence of user-based session management in these tools is a critical issue, as it leads to challenges such as:

Manual File Management: Users must manually save, organize, and track capture files.

No Built-in user authentication: Securely associating sessions with specific individuals is challenging, highlighting the need for robust user access control.

Risk of Data Loss or Mismanagement: Without proper organization, session data is at risk of being misplaced or mishandled, posing a. security

CURRENT SYSTEM

Existing Tools:

- Tools like Wireshark are widely used for network traffic analysis
- They allow users to capture and analyze networks packets in real-time

Manual Session Management: Users can only download in save capture files themselves, leading to potential disorganization or data loss.

No User-Based Access Control: Anyone with access to the system can view or manipulate saved session files.

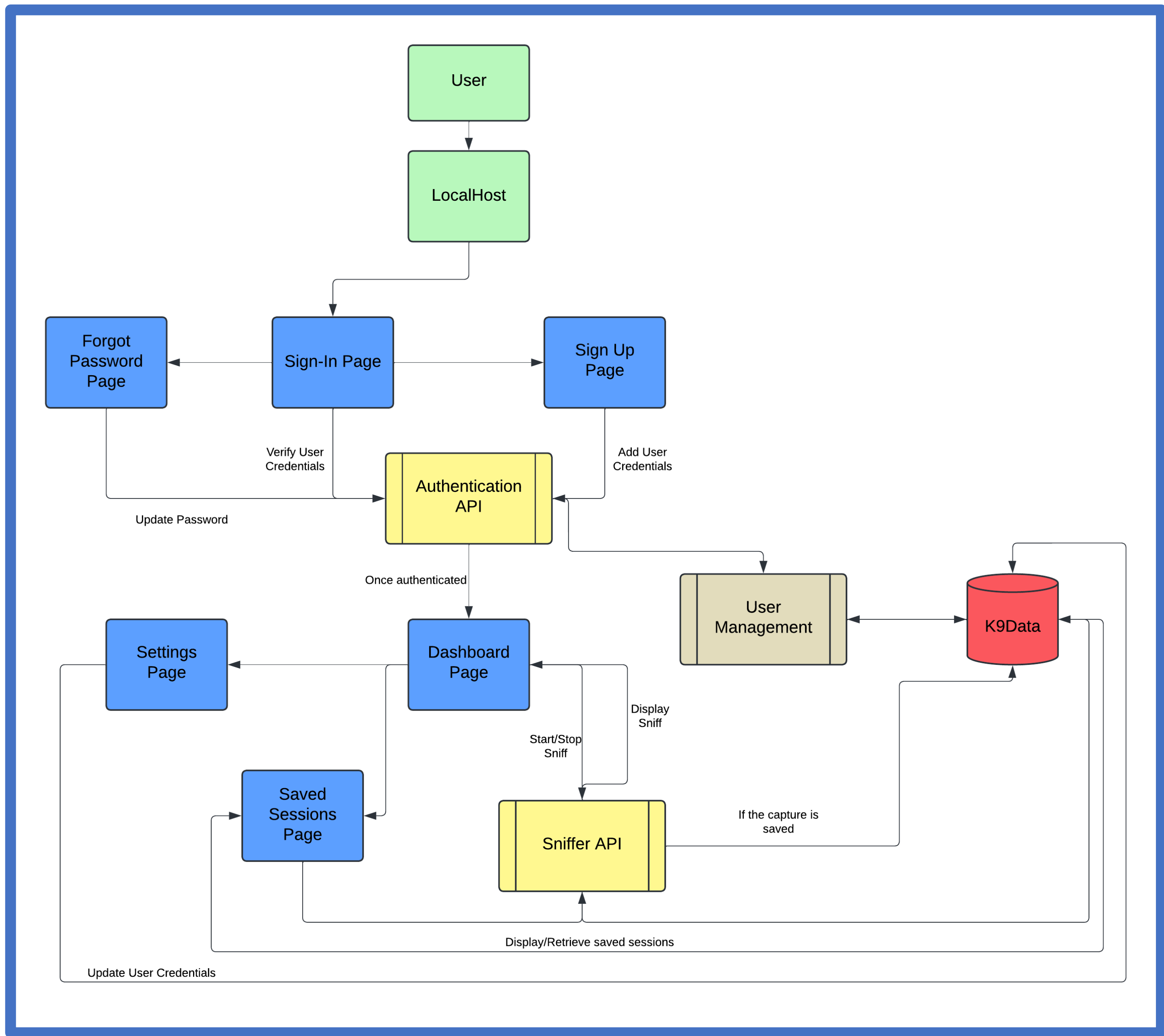
Scalability Issues: Managing numerous capture files becomes cumbersome, especially in multi-user environments.

Steep Learning Curve: The interface can be overwhelming for beginners, and certain features lack user-friendly implementation

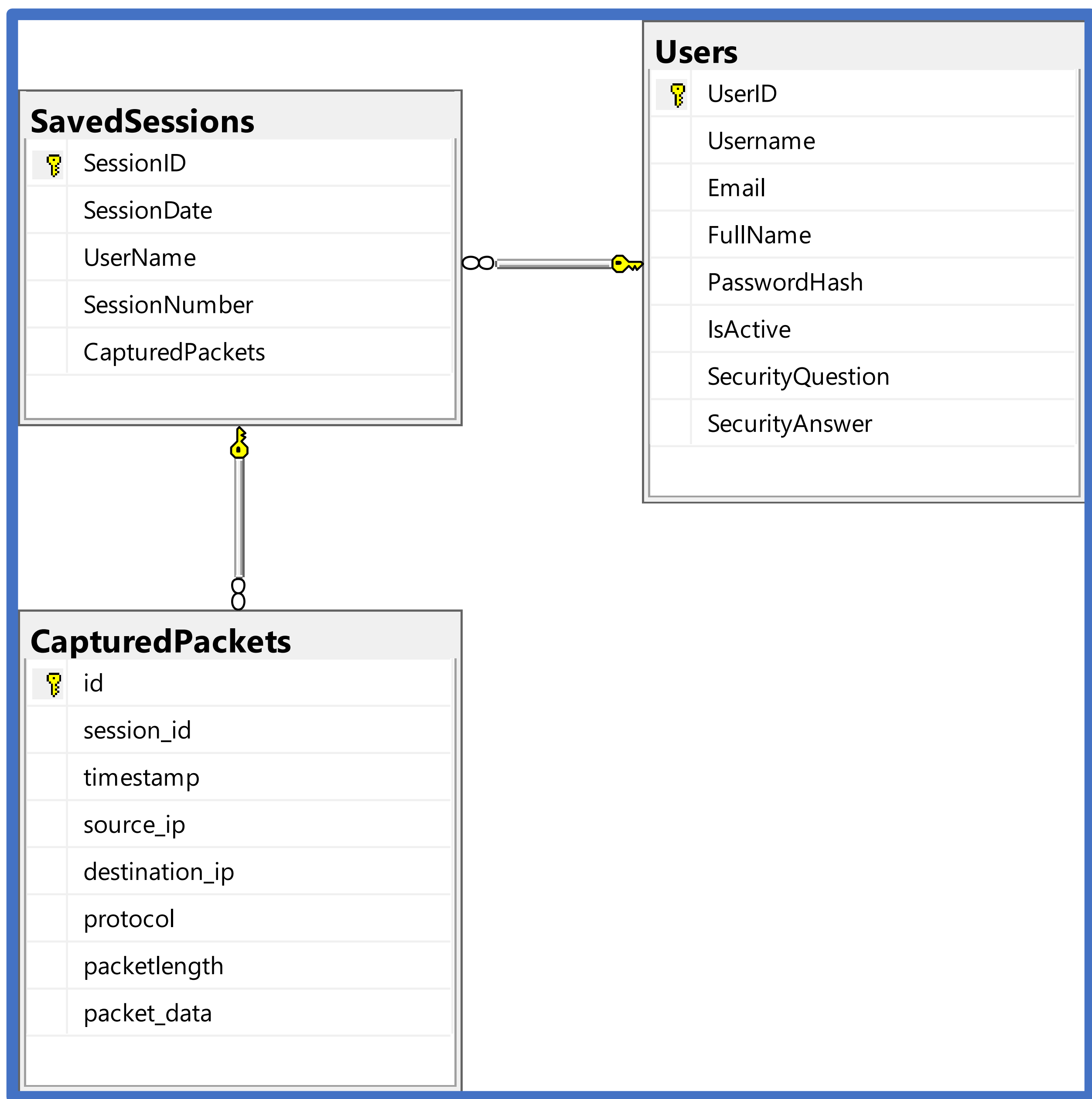
REQUIREMENTS



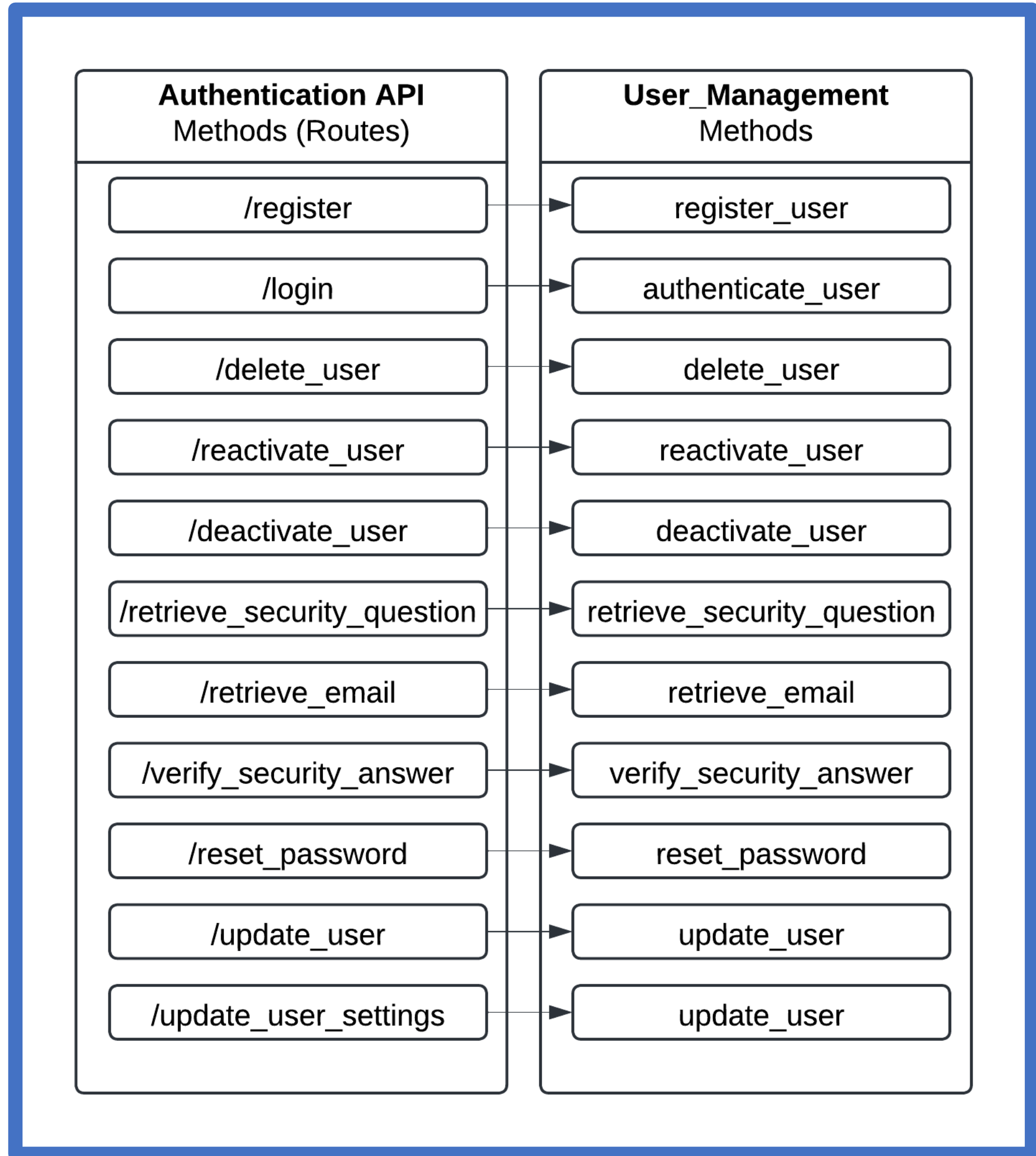
SYSTEM DESIGN



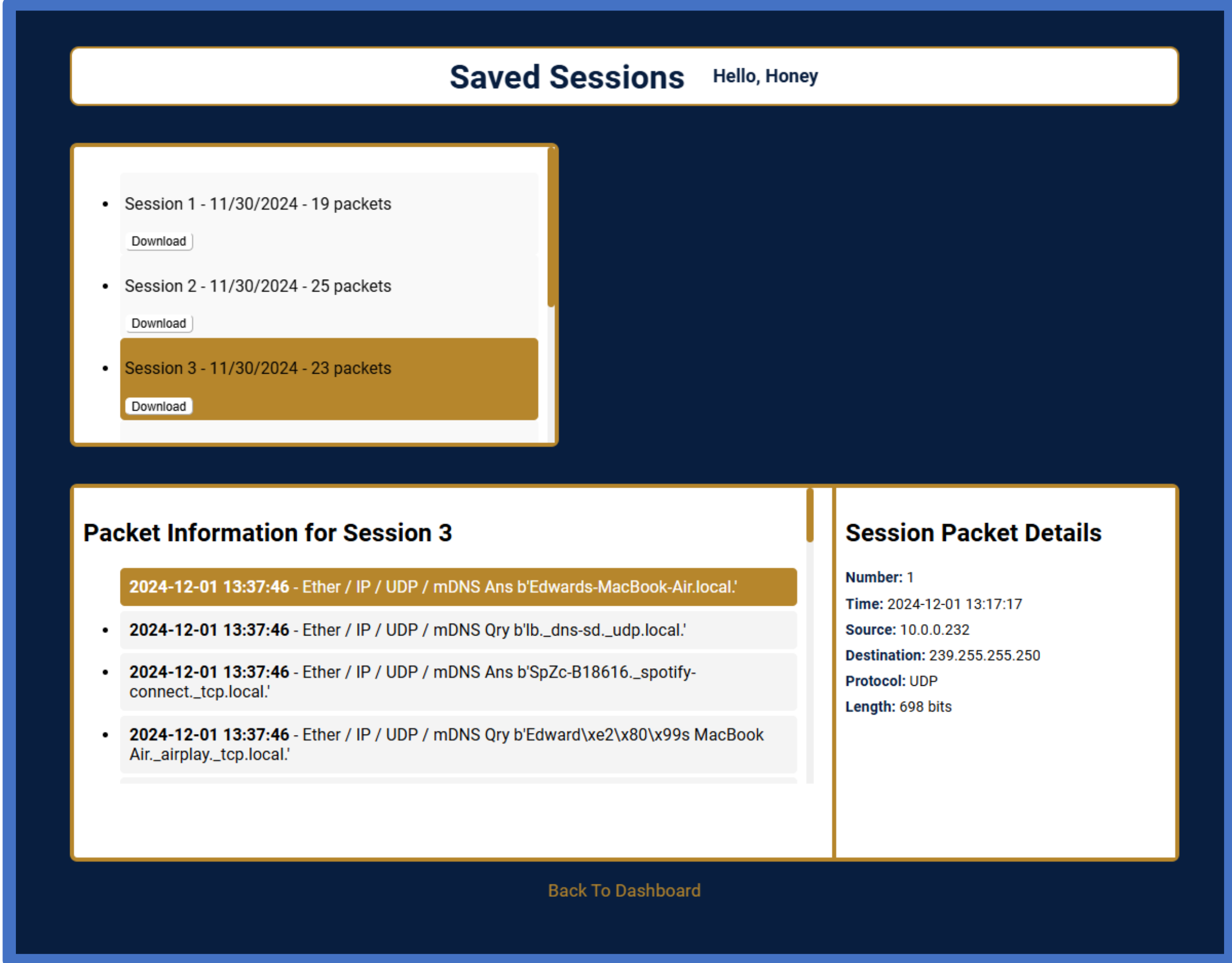
DATABASE DESIGN



USER AUTHENTICATION



SAVED SESSIONS



DR PLAN



DEMO VIDEO

