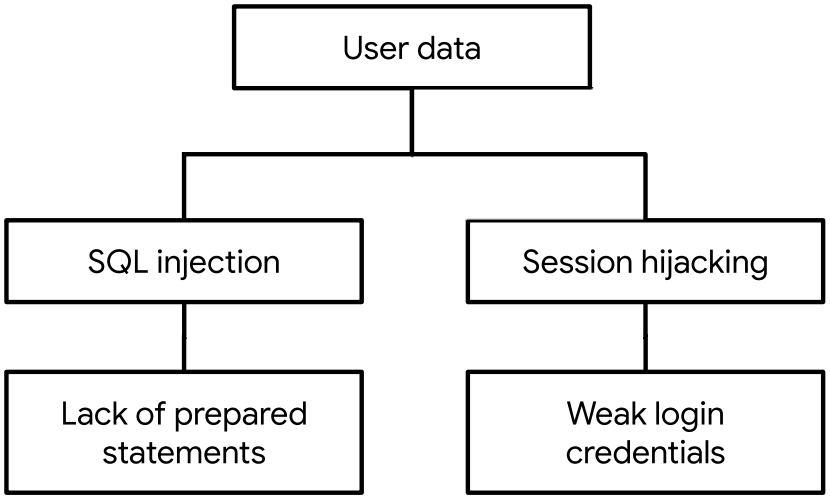
PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	Make **2-3 notes** of specific business requirements that will be analyzed. • ***The app must process financial transactions.*** • ***The app should comply with PCI DSS regulations.***
II. Define the technical scope	List of technologies used by the application: • *Application programming interface (API)* • *Public key infrastructure (PKI)* • *SHA-256* • *SQL* ***Since the DB is opened to customers for query for their products it also possesses the risk of threat actors who could take advantage by performing SQL Injection to run malicious query to gain access to customers data.***
III. Decompose application	Sample data flow diagram
IV. Threat analysis	List **2 types of threats** in the PASTA worksheet that are risks to the information being handled by the application. • ***Session Hijacking.*** • ***SQL Injection to run malicious query to gain access to customers data.***
V. Vulnerability analysis	List **2 vulnerabilities** in the PASTA worksheet that could be exploited. • ***The Lack of prepared statements might pose a vulnerability.*** • ***Broken API token***

VI. Attack modeling	Sample attack tree diagram
VII. Risk analysis and impact	List **4 security controls** that you've learned about that can reduce risk. 1. Password Policy. 2. Incident response Procedures. 3. IDS and IPS to monitor abnormal traffic. 4. Principle of Least Privilege.

Sample attack tree

Note: Applications like this normally have large, complex attack trees with many branches.



Data flow diagram

Note: This data flow diagram represents a single process. Data flow diagrams for an application like this are normally much more complex.