PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	- Create profiles - Process buying and selling - Should be in compliance with federal regulation
II. Define the technical scope	List of technologies used by the application: *Application programming interface (API)* *Public key infrastructure (PKI)* *SHA-256* *SQL* *APIs facilitate the exchange of data between customers, partners, and employees, so they should be prioritized. They handle a lot of sensitive data while they connect various users and systems together. However, details such as which APIs are being used should be considered before prioritizing one technology over another. So, they can be more prone to security vulnerabilities because there's a larger attack surface.*
III. Decompose application	[Sample data flow diagram](#)
IV. Threat analysis	Internal threat is SQL injection External threat is session hijacking
V. Vulnerability analysis	- Lack of prepared statements - Weak login credentials
VI. Attack modeling	[Sample attack tree diagram](#)
VII. Risk analysis and impact	- Password policy - Principle of least privilege - SHA-256 - Incident response