

PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	<p>Make 2-3 notes of specific business requirements that will be analyzed.</p> <ul style="list-style-type: none">• Users can create member profiles internally or by connecting external accounts.• The app must process financial transactions.• The app should be in compliance with PCI-DSS.
II. Define the technical scope	<p>List of technologies used by the application:</p> <ul style="list-style-type: none">• <i>Application programming interface (API)</i>• <i>Public key infrastructure (PKI)</i>• <i>SHA-256</i>• <i>SQL</i> <p>Write 2-3 sentences (40-60 words) that describe why you choose to prioritize that technology over the others.</p> <p>APIs are crucial for sharing data among customers, partners, and employees. They connect different users and systems and often handle sensitive data. However, before prioritizing one technology over another, it's essential to know which APIs you're using. APIs can be vulnerable to security issues due to their extensive attack surface, so prioritize security measures accordingly.</p>
III. Decompose application	Sample data flow diagram
IV. Threat analysis	<p>List 2 types of threats in the PASTA worksheet that are risks to the information being handled by the application.</p> <ul style="list-style-type: none">• <i>Injection</i>• <i>Session hijacking</i>
V. Vulnerability analysis	<p>List 2 vulnerabilities in the PASTA worksheet that could be exploited.</p> <ul style="list-style-type: none">• Lack of prepared statements• Broken API token

Stages	Sneaker company
VI. Attack modeling	Sample attack tree diagram
VII. Risk analysis and impact	<p>List 4 security controls that you've learned about that can reduce risk.</p> <ul style="list-style-type: none"> • SHA-256 • incident response procedures • password policy • principle of least privilege
