

PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	The app facilitates direct messaging between sellers and buyers. Customers of the sneaker company will manage their accounts from the app. Data transactions will be handled in the app.
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>API security and SQL attack prevention should be prioritized. Vulnerabilities affecting third party APIs used in development of the app should be assessed and risk involved mitigated. SQL attack prevention strategies should be considered in order to protect the database hosting customer PII.</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>What are the internal threats?</i>• <i>What are the external threats?</i>
V. Vulnerability analysis	<p>the app will use a payment system. The form used to collect credit card information might be vulnerable if it fails to encrypt data.</p> <ul style="list-style-type: none">• <i>Could there be things wrong with the codebase?</i>• <i>Could there be weaknesses in the database?</i>• <i>Could there be flaws in the network?</i>
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.