

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> <p>Users of the app will be able to make an account to login to. The app will operate with transactions as an option because they want users to have options to buy the items the sellers are offering. <i>The app should be in compliance with PCI-DSS.</i></p>
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>We need to prioritize these technologies over others because these implementations will help keep our users' information safe from actors with malicious intent. Especially the API since this is a big application that can be attacked for having a large attack surface if not protected properly.</p> <p>Write 2-3 sentences (40-60 words) that describe why you choose to prioritize that technology over the others.</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>Login credentials being easy to guess</i>• <i>SQL injections</i>
V. Vulnerability analysis	<p>List 2 vulnerabilities in the PASTA worksheet that could be exploited.</p> <ul style="list-style-type: none">• <i>Lack of prepared statements</i>• <i>Broken API token</i>

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">• Proper encryption methods• SHA-256• Implementing an IDS• Implementing an Incident response procedures• Playbooks
