

## PASTA worksheet

Stages	Sneaker company
<b>I. Define business and security objectives</b>	<p>Make <b>2-3 notes</b> of specific business requirements that will be analyzed.</p> <p><i>The app will have several payment options for a smooth checkout process.</i></p> <ul style="list-style-type: none"><li>• <i>The application should be lightweight.</i></li><li>• <i>Industry regulations like PCI DSS and GDPR need to be followed.</i></li></ul>
<b>II. Define the technical scope</b>	<p>List of technologies used by the application:</p> <ul style="list-style-type: none"><li>• <i>Application programming interface (API): Software components like the Payment apps need to interact with the app.</i></li><li>• <i>Public key infrastructure (PKI): It's an encryption framework used to secure the exchange of online information.</i></li><li>• <i>SHA-256: This is the best hashing algorithm which will protect sensitive user data by creating the hashes.</i></li><li>• <i>SQL: This language helps to interact in a seamless manner.</i></li></ul>
<b>III. Decompose application</b>	<a href="#">Sample data flow diagram</a>
<b>IV. Threat analysis</b>	<p>List <b>2 types of threats</b> in the PASTA worksheet that are risks to the information being handled by the application.</p> <ul style="list-style-type: none"><li>• <i>Session hijacking.</i></li><li>• <i>Injection.</i></li></ul>
<b>V. Vulnerability analysis</b>	<p>List <b>2 vulnerabilities</b> in the PASTA worksheet that could be exploited.</p> <ul style="list-style-type: none"><li>• <i>Lack of prepared statement.</i></li><li>• <i>Broken API token.</i></li></ul>
<b>VI. Attack modeling</b>	<a href="#">Sample attack tree diagram</a>
<b>VII. Risk analysis and impact</b>	<ol style="list-style-type: none"><li>1. SHA-256</li><li>2. Strong password policy.</li></ol>

	<ul style="list-style-type: none"><li>3. Incident response procedures.</li><li>4. Principle of least privilege.</li></ul>
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