

# PASTA Framework Report

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Stages	Sneaker company
I. Define business and security objectives	<ul style="list-style-type: none"><li>• <i>Users can create member profiles internally or by connecting external accounts.</i></li><li>• <i>The app must process financial transactions.</i></li><li>• <i>The app should be in compliance with PCI-DSS.</i></li></ul>
II. Define the technical scope	<p>List of technologies used by the application:</p> <ul style="list-style-type: none"><li>• <i>Application programming interface (API)</i></li><li>• <i>Public key infrastructure (PKI)</i></li><li>• <i>SHA-256</i></li><li>• <i>SQL</i></li></ul> <p><i>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.</i></p>
III. Decompose application	Data Flow Diagram Attached
IV. Threat analysis	<ul style="list-style-type: none"><li>• <i>Injection</i></li><li>• <i>Session hijacking</i></li></ul>
V. Vulnerability analysis	<ul style="list-style-type: none"><li>• <i>Lack of prepared statements for code.</i></li><li>• <i>Broken API token</i></li></ul>
VI. Attack modeling	Tree Diagram Attached
VII. Risk analysis and impact	<p>There are <b>4 security controls</b> that can reduce risk:</p> <ul style="list-style-type: none"><li>• <i>SHA-256</i></li><li>• <i>incident response procedures</i></li><li>• <i>password policy</i></li><li>• <i>principle of least privilege</i></li></ul>

