## **Process for Attack Simulation & Threat Analysis (PASTA)**

Stages	Sneaker Company
I. Define business and security objectives	<ul> <li>Specific business requirements:</li> <li>Users can create member profiles internally or by connecting external accounts.</li> <li>The app must process financial transactions.</li> <li>The app should be in compliance with PCI-DSS.</li> </ul>
II. Define the technical scope	<ul> <li>Application programming interface (API)</li> <li>Public key infrastructure (PKI)</li> <li>Advanced encryption system (AES)</li> <li>SHA-256</li> <li>SQL</li> </ul> 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.
III. Decompose application	User  Searching for sneakers for sale  Product search process  Listings of current inventory  Database
IV. Threat analysis	2 types of threats that are risks to the information being handled by the application:  • Injection • Session hijacking
V. Vulnerability analysis	2 vulnerabilities that could be exploited:  • Lack of prepared statements in the code

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