## PASTA worksheet

Stages  I. Define business and security objectives	<ul> <li>Sneaker company</li> <li>The app will be making transactions regularly.</li> <li>The app will be doing a lot of processing on the backend.</li> <li>An industry regulation that needs to be considered here is PCI-DSS for transactions and GDPR for international users.</li> </ul>
II. Define the technical scope	List of technologies used by the application:  API PKI AES RSA SHA-256 SQL  APIs are used to facilitate the exchange of data and should be prioritized because they will be handling a lot of sensitive data. APIs because of this are prone to attacks and any 3 <sup>rd</sup> party APIs used in the app may have underlying vulnerabilities posing a threat to the organization.
III. Decompose application	Sample data flow diagram
IV. Threat analysis	<ul><li>Injection</li><li>XSS</li></ul>
V. Vulnerability analysis	List 2 vulnerabilities in the PASTA worksheet that could be exploited.  Codebase does not properly use sanitation to properly protect against injection attacks.  Database not using prepared statements to protect against SQL injections.  Proper network firewalls, IDS, IPS, etc to protect against network attacks.
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.  1.) Input Sanitation  2.) Prepared Statements  3.) Strong password policies  4.) WAF or Web application Firewalls
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