## PASTA worksheet

| **Stages** | **Sneaker company** |
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| **I. Define business and security objectives** | Make **2-3 notes** of specific business requirements that will be analyzed.   * *Users have the ability to create member profiles either internally or by linking external accounts.* * *The application is responsible for handling financial transactions and must be in compliance with the Payment Card Industry Data Security Standard (PCI-DSS) to ensure the security of sensitive financial information.* |
| **II. Define the technical scope** | List oftechnologies used by the application:   * *Application programming interface (API)* * *Public key infrastructure (PKI)* * *SHA-256* * *SQL*   Write **2-3 sentences** (40-60 words) that describe why you choose to prioritize that technology over the others.  *APIs play a crucial role in facilitating the exchange of data between customers, partners, and employees, and therefore should be given priority. They handle sensitive data while connecting various users and systems, making them a prime target for cyber attacks. However, it is important to consider details such as which APIs are being used before prioritizing one technology over another. Due to their larger attack surface, APIs are more susceptible to security vulnerabilities.* |
| **III. Decompose application** | “Sample data flow diagram” document alongside this document |
| **IV. Threat analysis** | List **2 types of threats** in the PASTA worksheet that are risks to the information being handled by the application.   * *Injection* * *Session hijacking* |
| **V. Vulnerability analysis** | List **2 vulnerabilities** in the PASTA worksheet that could be exploited.   * *Lack of prepared statements* * *Broken API token* |
| **VI. Attack modeling** | “Sample attack tree diagram” document alongside this document |
| **VII. Risk analysis and impact** | List **4 security controls** that you’ve learned about that can reduce risk.  *SHA-256, incident response procedures, password policy,*  *principle of least privilege* |