## 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 can create member profiles internally or by connecting external accounts.* * *The app must process financial transactions.* * *The app should be in compliance with PCI-DSS.* |
| **II. Define the technical scope** | List oftechnologies used by the application:   * *Application programming interface (API)* * *Public key infrastructure (PKI)* * *SHA-256* * *SQL*   APIs play a pivotal role in enabling seamless data exchange among customers, partners, and employees, underscoring their priority. Given their involvement in handling substantial sensitive data during the interconnection of diverse users and systems, their security significance is paramount. However, the specific APIs in use should factor into the technology prioritization decision. It's important to note that APIs, due to their expansive attack surface, can be susceptible to security vulnerabilities. |
| **III. Decompose application** | [Sample data flow diagram](https://docs.google.com/presentation/d/1ol7y79popTFfNHM-90ES-H-i1Lpd0YNvPShxBlXozjg/template/preview?resourcekey=0-DZAkf7Vzh2PXsP-j3oXV-g) |
| **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](https://docs.google.com/presentation/d/1FmWLyHgmq9XQoVuMxOym2PHO8IuedCkan4moYnI-EJ0/template/preview?usp=sharing&resourcekey=0-zYPY7AhPJdcClXamlAfOag) |
| **VII. Risk analysis and impact** | List **4 security controls** that can reduce risk.  *SHA-256, incident response procedures, password policy, principle of least privilege* |