## PASTA worksheet

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| **Stages** | **Sneaker company** |
| **I. Define business and security objectives** | Make **2-3 notes** of specific business requirements that will be analyzed.   * *User can create accounts* * *App must process transactions* * *App should be in compliance with PCI-DSS* |
| **II. Define the technical scope** | List oftechnologies used by the application:   * *API* * *PKI* * *AES* * *SHA-256* * *SQL*   APIs have the role of enabling data exchange between customers, partners, and employees, making them a priority for security considerations. Since APIs handle a significant amount of sensitive data and connect various users and systems, they inherently introduce a larger attack surface, which can increase the risk of security vulnerabilities. However, it's essential to assess which APIs are being used before prioritizing one technology over another to ensure a balanced and effective security approach. |
| **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.   * *Injecting* * *Session hijacking* |
| **V. Vulnerability analysis** | List **2 vulnerabilities** in the PASTA worksheet that could be exploited.   * *Broken API token* * *Not validating data correctly* |
| **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 you’ve learned about that can reduce risk.  SHA-256 for hashing,  Password policy to prevent brute-force,  Principle of least privilege to prevent internal risks,  Incident response procedures to plan and manage breaches. |