## 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.   * *Data privacy of sellers and shoppers data* * *Payments are to be properly facilitated* * *Messages are to be encrypted* |
| **II. Define the technical scope** | List oftechnologies used by the application:   * *API* * *PKI* * *AES* * *SHA-256* * *SQL*   Write **2-3 sentences** (40-60 words) that describe why you choose to prioritize that technology over the others.  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** | [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.   * *Injections* * *Session Hijacking* |
| **V. Vulnerability analysis** | List **2 vulnerabilities** in the PASTA worksheet that could be exploited.   * *Lack of prepared statements* * *Broken API tokens* * *Weak login credentials* |
| **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, incident response procedures, password policy,  principle of least privilege |