## PASTA worksheet

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| **Stages** | **Sneaker company** |
| **I. Define business and security objectives** | * Seamlessly connect sellers and shoppers with easy sign-up, login, and account management. * Ensure data privacy and secure handling of sensitive user information. * Facilitate direct messaging and ratings between buyers and sellers. * Provide multiple payment options for secure and smooth checkout. * Comply with industry regulations such as PCI DSS for payment processing security. |
| **II. Define the technical scope** | List oftechnologies used by the application:   * *API* * *PKI* * *AES* * *SHA-256* * *SQL* * *Prioritize SQL for its critical role in storing sensitive data; evaluate API for vulnerabilities; review encryption (AES, RSA) for secure data handling.* |
| **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** | * *What are the internal threats?*   *Insider threats, misconfigured access controls*   * *What are the external threats?*   *SQL injection, DOS attacks* |
| **V. Vulnerability analysis** | * *Inadequate input validation, insecure API endpoints* * *Lack of encryption, misconfigured permissions.* * *Flaws in network configuration, lack of network segmentation.* |
| **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** | * *Input validation and sanitization* * *Secure API management* * *Data encryption* * *Robust Access Controls* |