## PASTA worksheet

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| **Stages** | **Sneaker company** |
| **I. Define business and security objectives** | * Will process transactions. * Does a lot of back-end processing due to the amount of features listed. * Legal regulations linked to payment handling. |
| **II. Define the technical scope** | SQL is the most important technology to prioritize in order to ensure customer data is being handled safely and securely. In the case of unsanitized inputs, threat actors are able to perform SQL injections to pull customer data from the database that should be secured. |
| **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** | * Session hacking * SQL injection |
| **V. Vulnerability analysis** | * No prepared statements * Unsanitized inputs |
| **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** | * Password policies * Principle of least privilege * Prepared statements * Encryption |