

PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	<ul style="list-style-type: none">• <i>Safeguarding financial information by ensuring policies are met</i>• <i>Ensuring customer PII is handled discreetly so only the information that is necessary is shared</i>• <i>Making sure login is handled properly so a seller is not impersonated and selling fake items</i>
II. Define the technical scope	<ul style="list-style-type: none">• <i>Public key infrastructure (PKI) is really helpful for this application as it helps encrypt data and due to the amount of data been shared it keeps all data safe</i>• <i>SHA-256 is another layer of security that provides a way to encrypt sensitive data like passwords and credit card information</i>• <i>SQL</i>
III. Decompose application	Sample data flow diagram
IV. Threat analysis	<ul style="list-style-type: none">• <i>Due to buyers and sellers communicating, social engineering as an attack point getting information from sellers that can be used to attack Authentication</i>• <i>What are the external threats?</i>
V. Vulnerability analysis	<ul style="list-style-type: none">• <i>SQL injections</i>• <i>Poor logging process can cause a major weakness for users of the app.</i>
VI. Attack modeling	Sample attack tree diagram
VII. Risk analysis and impact	SHA-256, incident response procedures, password policy, principle of least privilege
