PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	 Make 2-3 notes of specific business requirements that will be analyzed. The application should seamlessly connect sellers and shoppers The app must process financial transactions The app should be in compliance with PCI-DSS
II. Define the technical scope	List of technologies used by the application: • Application programming interface (API) • Public key infrastructure (PKI) • SHA-256 • SQL Write 2-3 sentences (40-60 words) that describe why you choose to prioritize that technology over the others. The technology that should be prioritised is SQL. SQL is vulnerable to injection attack. SQL should be addressed as soon as possible to avoid unwanted queries as the database stores the usernames and passwords of users.
III. Decompose application	Sample data flow diagram
IV. Threat analysis	List 2 types of threats in the PASTA worksheet that are risks to the information being handled by the application. • SQL injection attack • Session hijacking as the app communicates cookies between multiple layers
V. Vulnerability analysis	List 2 vulnerabilities in the PASTA worksheet that could be exploited. • Broken API token

	Not using prepared statements
VI. Attack modeling	Sample attack tree diagram
VII. Risk analysis and impact	List 4 security controls that you've learned about that can reduce risk. Using prepared statements Hashing username and passwords and salting Password policy Token-based authentication