PASTA worksheet

Stages	Sneaker company
I. Define business and security objectives	*The primary business objective for the product search process is to enable users to quickly and efficiently find shoes listed by sellers. From a security perspective, this process must securely handle search queries and return accurate results to maintain user trust and prevent data manipulation.*
II. Define the technical scope	*Focusing on API OWASP compliance ensures that the backend reaches a good level of security and data integrity.* *SQL queries must be meticulously reviewed for unescaped entry data that could return unauthorized data.*
III. Decompose application	[Sample data flow diagram](#)
IV. Threat analysis	*A threat actor would try to exploit the user's search form to extract data, or gain access, to the database through SQL injection. Additionally, a threat actor could attempt session hijacking to take control of a legitimate user's session, potentially leading to unauthorized actions or data access within the application.*
V. Vulnerability analysis	*Lack of prepared statements* *Weak session management*
VI. Attack modeling	[Sample attack tree diagram](#)
VII. Risk analysis and impact	*Prepared statements and Input validation can mitigate SQL Injection attacks while TLS cryptography and session timeout can mitigate session hijacking attacks.*