

Prospecta Coding Assignment

Question 3- what are the key things you would consider when creating/consuming an API to ensure that it is secure and reliable?

Answer- Key things to remember while creating an api considering the security is following-:

1. First implement is proper authentication and authorization mechanisms to ensure that only authorized users or applications can access the API.
2. Always use encryption to protect your data in transit and at rest. HTTPS should be used for all communications because it is secure.
3. Make sure you design error logging correctly. Don't use the practice to throw it together. Distinguish errors caused on the client's side, and errors caused by your software. Put these into two separate logs.
4. Also support multiple representations of the resources with the possibility to redirect to specific formats.
5. GET, POST, HEAD, PUT, DELETE, OPTIONS and TRACE are all considered for the operations.
6. Provide clear and comprehensive documentation to help developers understand how to use the API properly and securely.
7. Thoroughly test the API to ensure that it is working as expected and all security measures are functioning correctly.