

Solution Architecture Methodology / Work Flow

1. Understanding of the Requirement. (Go to : first meeting questionnaire)
2. Study scope of the project Understand the intended outcome.
3. Study the current UI designs.
4. Interview main Stake holders of the project.
5. Understanding the users, locations, environment and system will be used in.
6. Understanding the Servers, network and in fracture facilities.
7. Understanding the security concerns.
8. Understanding the future expansion of the software system.
9. Rough estimation of software budget.
10. Detailed study of availability of technology, resource availability and their cost.
11. Designing the Solution Architecture.
12. Reviewing the solution architecture with the stakeholders.
13. Update the Solution Design.

First meeting Questionnaire

Understand the overview

1. What problem are you trying to solve?
2. Why are you trying to solve it?
3. What's the business impact?
4. How do you see this system working once it's up and running?
5. Who will be the consumers?
6. When do you need to go live?
7. How many users will access the system?
8. Future expansions and integrations ?

Understand the technical and financial constraints

1. What's the estimated budget?
2. Any technical constraints that you want to mention? Tech stack that you NEED to use?
WANT to use? PREFER to use?
3. Are you going to run this on-prem? Cloud? Hybrid? What is your org's expertise level with either one of those?

Data Stack

1. Where is the data coming from? Who's creating/ingesting it?
2. How will the data be collected? Searched?
3. Is there a need for data analysis?
4. What are the data access patterns?

App Stack

1. Will you be using any 3rd-party software out of the box or will you be developing everything yourselves?
2. Any integrations?

UI Stack

1. What are the ways that your users will be interfacing with this app?
2. Mobile? Web?

Security

1. What are your security requirements?
2. Encryption?
3. Compliance certification?

Understand the operational/support capabilities

1. What would happen if it's down for a minute? Hour? Day?
2. How are you planning on testing and deploying the code?