Project /Application technology-
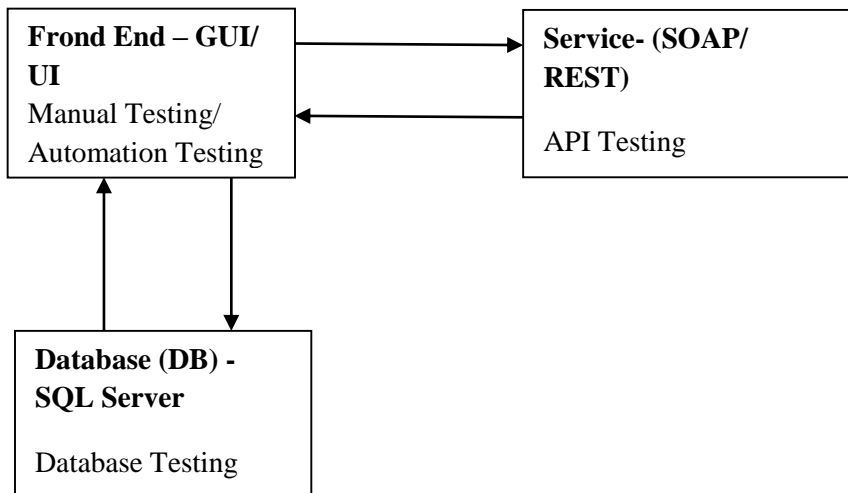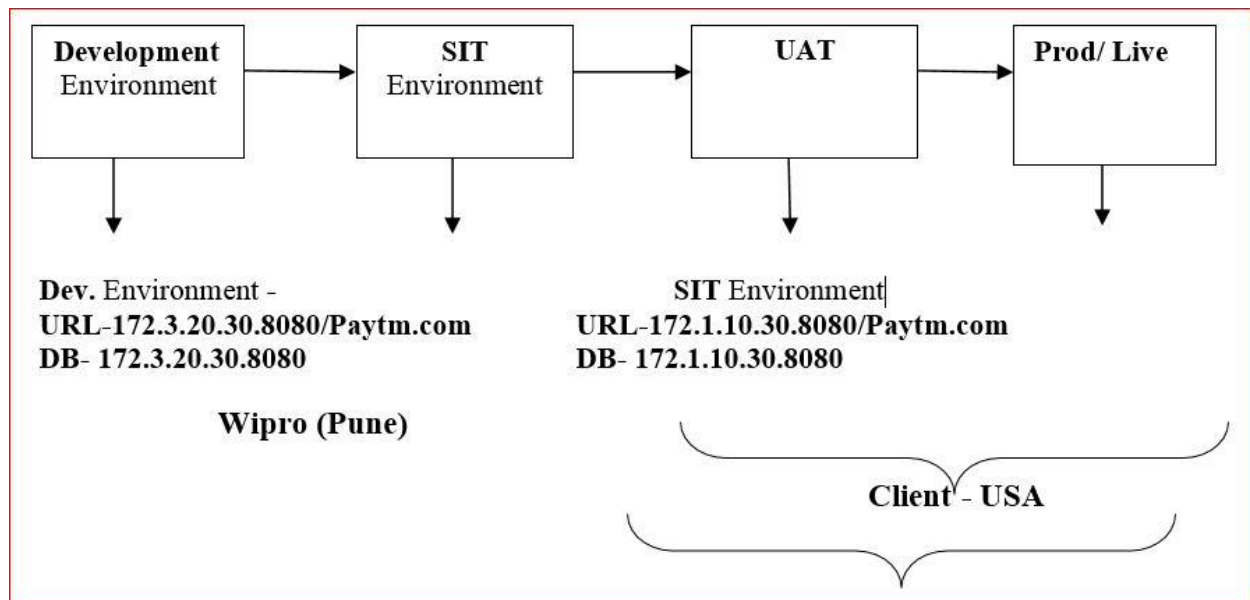
- Different project technology –

  1. **Frond end- Dot Net languages**

  2. **Database – SQL Server**

  3. **Service/ API Services- Java languages**

```
┌─────────────────────────┐         ┌──────────────────────┐
│ Frond End – GUI/         │────────▶│ Service- (SOAP/      │
│ UI                       │         │ REST)                │
│ Manual Testing/          │◀────────│                      │
│ Automation Testing       │         │ API Testing          │
└─────────────────────────┘         └──────────────────────┘
        ▲  │
        │  ▼
┌─────────────────────────┐
│ Database (DB) -          │
│ SQL Server               │
│                          │
│ Database Testing         │
└─────────────────────────┘
```

Environments-

Environment project - 4 types

- **Development Environment** - Developers will do doing **coding on User Story** - **Build**

  - **Mail** to JIRA/ HPALM tool -**Unit testing doc. + URL**= 172.3.20.30:8080/paytm.com

- **SIT Environment** - Tester will work **TCD**, **TCE** (URL- 172.1.10.30:8080/paytm.com)

- In TCE if found **defects** - **Assign/raised to developer** - tester will sent **Mail**
  todeveloper JIRA/ HPALM tool

- **SIT Environment** - Tester sent **Mail UAT team** (attachment- **Test Proof doc.**)

Environments

1. There are total 4 environment in any project

    1. DIT
    2. SIT
    3. UAT
    4. Production

2. DBA(Database administrative team) or Build team creates these 4 testing environment

1. DIT

1. In this DIT developers are involved & developers develop code according to the user stories / functional requirements
2. Having completed the coding, they perform unit testing or WBT & Integration testing
3. Having completed testing's, code is pushed on particular location of the server
4. The code is dragged by DBA team & they prepare build(URL) for that code
5. Then code is deployed on the build(URL)

2. **SIT**

    1. Having deployed code on build, we get system generated mail as well as mail from development team leader on JIRA / HPALM tool
    2. Mail contains (System generated mail)

        - Build is successful
        - Build (URL)=172.30.20.8080/.Paytm.com
        - Credentials
        - Design documents (of the deployed code)
        - Unit testing documents
        - Build release
        - Build version

    3. Test execution comes in to the picture where we perform sanity, system & function testing etc.
    4. If defects found / occurred, we raise the defect & assign the defect to the developer.
    5. Having raised the defect, we send mail to the developer on JIRA / HPALM tool

3. **UAT**

    1. DBA team creates UAT environment it is created when project is about to complete
    2. Stack holder, development team, scrum master, product owner, test team sit together & check entire / overall functionality of the application step by step from start to end
    3. If it is defect free / bug free, then it is send to the production/Live

    Build for testing?

    1. Having completed the coding, unit & integration testing, developer sends mail through the project management tool- JIRA/HPALM tool to us.
    2. Mail contains

        - We are delivering below functionalities (functionalities are mentioned)
        - Build with credentials
        - Release no, build release, build version
        - Unit testing documents

- Design documents (of deployed code)

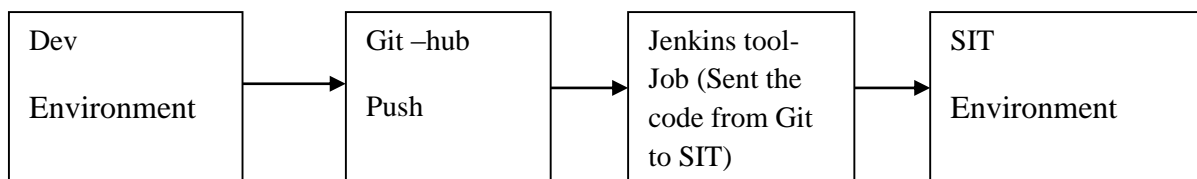3. In SIT environment, we open the build & perform the testing

Note-

- Server is hired for project by company to maintain application & data
- URL is a part of server or location of server or number of location or build

❖ **How do you open or test application?**

I work in SIT environment & we have SIT address & Tested SIT environment
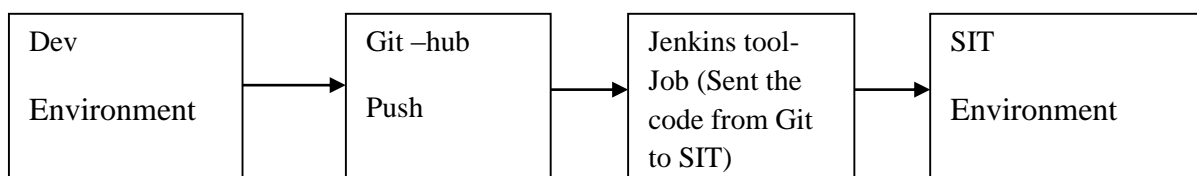
- In My organization, we are using "**Jenkins tool**" for deployment

Dev Environment	→	Git –hub Push	→	Jenkins tool- Job (Sent the code from Git to SIT)	→	SIT Environment

- **Dev Environments**- Unit Testing, Integration Testing
- **SIT Environments**- Sanity, Smoke Testing, System & function testing, retesting & regression testing
- **UAT Environments**- Alpha & Beta Testing

Interview question-

1. What are different technologies present in your project?
2. What are different environments in your project
3. What is the URL for SIT environment? How you're opening the application?
4. How you get the build?
- **Answer- 1. When** Developer will complete the coding then he will sent build to SIT environment.
- Developer will sent attachment – unit testing doc, URL, tables names
- In My organization, we are using "**Jenkins tool**" for deployment

Dev Environment	→	Git –hub Push	→	Jenkins tool- Job (Sent the code from Git to SIT)	→	SIT Environment

5. What is your approach if SIT environments are not present? OR if both developer & tester are working in same environments?

- **Answer-**Developer & tester are working in same environment. Some of these defect we will missed in testing.
- **If SIT environments is not present**, we will try to test the application in Dev **& UAT environment (remotes desktop access we will do testing)**