**Preparation Work**

One week before the full blend Process the transformation team will share the case study to trainer (If trainer is new to the organisation) and freelancer. For e.g.: Suppose if we are starting full blend on 3rd Jan the transformation team will share the case study on 22nd dec. The trainer as well as freelancer will go through the case study and the transformation team will give them 2 days’ time. On 24th Dec they have to present their understanding in front of the team or if any of the quality person. The team will validate the trainer based on their understanding, if it is correct then its good otherwise, they will again explain them what is the problem statement and what has to done. Because in some cases the trainer as well as freelance will not be able to understand the problem statement properly and they will get into the session and they will guide the participants incorrectly.

Step1: In whole this full blend process we use **SDLC method** and in SDLC we follow Agile Methodology. In India according to **NASSCOM** has developed standard steps for these life cycle and we have to follow those 5 steps.

Step2: In agile methodology we have sprint process. In 1st sprint we have to define what has to develop and 2nd sprint the goal has to be decided and soon.

In case the full blend is for 4 weeks or 5 weeks we have to make sure that in 5 weeks we should be able to close our project in 4 sprints. In agile methodology we have two sub- process one is scrum call and other is sprint call.

**Scrum Call:** This call can be happened on every day, in a week or 15 days. Here they will discuss about the daily updates whether we are able to meet our goal to reach our sprint.

**Sprint Call:** In this we will define the goal of the project which our participants are going to do.

In our project there will be 4 sprint call. In some cases, the 1st sprint call can be input for 2nd sprint call or it can be like the 1st,2nd and 3rd sprint call can be discrete and 4th sprint can be integration. On each sprint call we have to specify the percentage level of project completion and at last sprint call it should reach the 100%. It is not necessary that sprint call will happen in every one week. Based on the project module duration the sprint will also varies. For e.g.: the 1st sprint call happens in one week and 2nd sprint call happen in 2 weeks based on the duration of project module.

**Role played by each individual in this project:**

Technical Trainer role is project manager. Core trainer role is also project manager. Here core trainer plays a very important role more than the technical trainer. Because he is the one who actually works as a project manager. In this one week the technical as well as behavioural trainer sit together to create teams. Suppose they have the batch of 20 students. They divide the 20 students into small teams. In this case they divide into 4 teams with 5 students. They are also responsible for assigning the scrum master for each team. Out of 5 students one student will be scrum master and the others are full stack developers. The full stack developers means that they will do end to end development. The scrum master will also be the full stack developer.

**Role of Scrum Master:** He is the one who has to take scrum meetings with all the other members in the team everyday to understand the development of project and they will also update about project development.

**Qualities of Scrum Master:**

1.He/she should be technically sound person.

2.He/she should have very good team spirit.

3.LeaderShip Quality should be there.

Since we are working in an **agile methodology process**, we will not assign the duty for each one. On the other hand, 5 people in a team should do the case study which is there in that document. There should be minimum of 5 use cases and it should be end to end. When I say the case study end to end it means that if it is a full stack project the use case should be defined in such a manner that every single person will perform development of UI till development of database. The technical trainer has to make sure that all students are participating in each and every Development process of project.

**Full blend Process**

The first day of full blend process the technical trainer will share the case study with each team. The team members will study the case study and understand the requirements. Once they understand the requirements properly. On the second day the project kicks off call will happen with client. We can call this kick off call as requirement analysis. During this period every team will act as software development company and other is client.

The members involved in this meeting are client, team members and project manager. During this meeting the team will present their understanding about the problem statement. For this problem statement they will come up with solution part.

The team will also mention the requirements in front of client i.e., how many systems they required and what are the specification? This is somewhat like Quotation.

Apart from this they also need to specify the functional and non-functional part of the project. They also come up with the flowchart, sequence diagram, use cases based on the system. Once they present this in front of client. The client will validate the team based on the understanding of requirements. If there understanding is correct the client will give confirmation to proceed with the project. Otherwise, the client will correct them.

In the same kick off call the scrum master will share the **MOM template**. In this MOM document the team have to define the agenda, minutes of meeting details and also what actions has to be taken care. After that we share them with **BRS template**. In this document the team will mention each sprint and define the requirements and clarification of the project that each participant has understood about the project development. Once the clear picture is done, they divide the complete project into small sprint and they will share the sprint with the client through mail. After that we will share them the **BRD document**. In this document the team will put all the requirements in details based on the priority level. The client is the one who has to answer for these queries they have mention in the document. The development team will prepare the BRS document and share with the client through the mail. Once the BRS is closed by client or once they get signoff, they will start the project work.

Once the **setup of the project** will happen. During this time, they will do all the design work. The team will prepare the architectural design, screen identification and high-level database design. The role of the trainer during the start of the project is he has to explain the SDLC to the team in briefly also need to explain about agile methodology.

Testing team will create UAT test cases as per BRS document. In our project we all are full stack developers and each members need to do end to end work. This setup project also means the requirements of developers for e.g.: they need this much of internet speed, specification of the system i.e., how much of RAM, hard disk etc. The scrum master will inform about these requirements to the client and the client will go head and arrange it.

Refresher session can be given to team on front end and back-end technology based on the requirements. Every team member will start doing coding and among themselves they will coordinate the things. Here we will share the **test plan template** with the team. This document has to be used throughout the project. In this document development team need to mention few details like testcase ID, title, expected and actual results etc. They will start the UI design and development of database and parallelly the UI testing will also do by the team. The 2nd sprint call will happen once we achieve the 1st sprint call. In the 2nd sprint call the development team will update the progress of the project to the client. The team will have meeting with the client. Once the client is satisfied with progress of the project the team will start the next sprint 2. If the client is not satisfied with team progress, he will make changes on it. The changes will be updated in change request template and this document will be shared with the team.

How many times the client is making changes that many times the project will be created along with id i.e., **change request id**. In this document we need to mention which layer is going to impact. The layer in the sense whether it is presentation, network or database layer. The responsibility of the trainer is to inform the client about sprint call in prior and ask scrum master to send the invitation to client. Once the sprint call is done the process will be same and the scrum master will share the MOM template with the client.

When developing project there are chances of getting bugs or defects. These defects are mention in the **defect’s tracker template**. For finding bugs in our project, we have tester in the development team. Since we are a full stack developer each member in the team needs to do end to end work. In defect’s tracker template the bugs are mention in details with ID, test env -in test environment we will specify what exactly the bus is? and so on. This document is maintained from the setup project day onwards.

**Defect Management System** is from the time the bug has been identified till the time it has been closed. If we are following **waterfall model** in that the testing will come last. So, at that time the project has been fully developed and it will be difficult process for the developer to fix the bugs. since we are following **the agile methodology,** it will be easy for the team to identify the bugs and fix it. Because in agile methodology we are dividing the complete project into small chunks. These small chunks of project will be tested and the team will find bugs and fix it.

**Integration of modules:** The team will integrate modules and create a traceability document.

When the team has developed few modules then the next step is to integrate modules. There are some cases where modules need to be integrated. For e.g.: Suppose we have developed user and admin module. When user enters the data in the database that data need to viewed and updated by admin this is the real time scenario. For these the team has to integrate those modules to check whether the configuration is done correctly. Integration of modules details should be mentioned in the traceability document by the team. Once all the integration of modules has happened then come to release management. In release management there the team has to maintained the release note template. After releasing the project there are chances of getting bugs those bugs details should be mentioned in release note document. That bug has been fixed by the development team.

The Last stage is the **project deployment** and that stage all teams will present their project in front of client and other quality person. The overall feedback will be given to the teams by the client.