**Software Development Life Cycle(SDLC)**

**Software Development Life Cycle** **:** It is a systematic approach used to build software applications . It consists of phases like

**1)** **Planning + Literature survey** **:** Here we define the objective, goal, purposes, plan of action further application to be build.

**2) Requirements gathering** **:** Upon successful selection of the topic as the project, now it is the responsibilities of the team to collect, gather information about the project to be build for this actual sites can be visited, journal papers can be studied market analysis can be done.

**3) Requirement Analysis** **:** Once requirements are gathered, now is the time to refine those requirements to decide.

* What all we can build ? ,
* Will we be able to build it ? ,
* What are the system requirements ? ,
* Labour requirements ,Infra requirements ? ,etc .

**4) Design :** Once requirements are filtered out then the next important phase is design .Here the requirements are arranged in diagrams or pictorial formats to make them more readable, understandable by the team members. Here diagrams like

* Flow charts,
* UML Diagrams
* Data flow diagrams (DFD)
* System architech can be created.

**5) Development :** Once Design for the application is ready then the developers will build it using platforms like

* Python
* Django
* Java
* Springboot
* .Net PHP , etc . It is the lengthiest phase .

**6) Testing** **:** To determine whether the application is working as per requirements testing is carried out . Here if any defects are present in the system are found and fixed.

**7) Deployment :** Upon successful testing the software is ready to be deployed.

a) To the production unit

b) End Users.

**8) Maintenance and Feedback :** Here the team will look after the software application at the end of the customer sides. Training to the customers review from the customer,are a part of maintenance and feedback.