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**Create a word document explaining SDLC development phases with respect to programming upload this document on GitHub.**

**SDLC**

Software Development Lifecycle

It is a systematic approach used to build software application.

It consist of phases like:--

1. **Planning:--** Here we defined the objectives, goals , purpose plan affection for the application to be build. Proper planning is crucial for the success of any SDLC project E.g.:- Quality Assurance planning , Documentation Planning .
2. **Requirements Gathering:--** Upon successful selection of the topic as the project . Now it is the responsibility of the team to the collect / gather information about the project to be build . For this actual site can be website , journal paper can be studied Market analysis can be done
3. **Requirement Analysis:--** Once Requirements are gathered now is the time to refined those requirements to decide what all we can be build , will we be able to build it, what are the system requirements , labor requirements , infra requirements
4. **Design:--** Once Requirements are filtered out then next important phase is design. Here the Requirements arrange int diagram , pictorial formats to make them more readable understandable by the team members. Here diagrams like flowchart , uml diagram . dataflow diagram, system architecture can be created
5. **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.
6. **Deployment:--** To successful testing the software is ready to deployed. A)Production unit. B) End user.
7. **Maintenance/ Feedback:--** The team will look after software application at the end of customer site .Training to the customer , review from the customer is part of maintenance & feedback
8. **Development:--** Once design for the application is ready then the development will build it using platform like python – Django , Java - Spring boat , .net , php etc. It is the lengthiest phase of SDLC