

Chapter 2:-PROJECT MANAGEMENT

2.1 Project Planning

2.1.1 Project Development Approaches And Justification:

The Waterfall Model was first process model to be introduced. It is also referred to as a Linear-sequential life cycle model. It is very simple to understand and use. In a waterfall model, each phase must be completed fully before the next phase can begin. This type of software development model is basically used for the project which is small and there are no uncertain requirements. At the end of each phase, a review takes place to determine if the project is on the right path and whether or not to continue or discard the project. In this model software testing starts only after the development is complete. In waterfall model phases do not overlap. The waterfall encompasses the following phases:

- Requirements
- Design
- Implementation
- Verification
- Maintenance

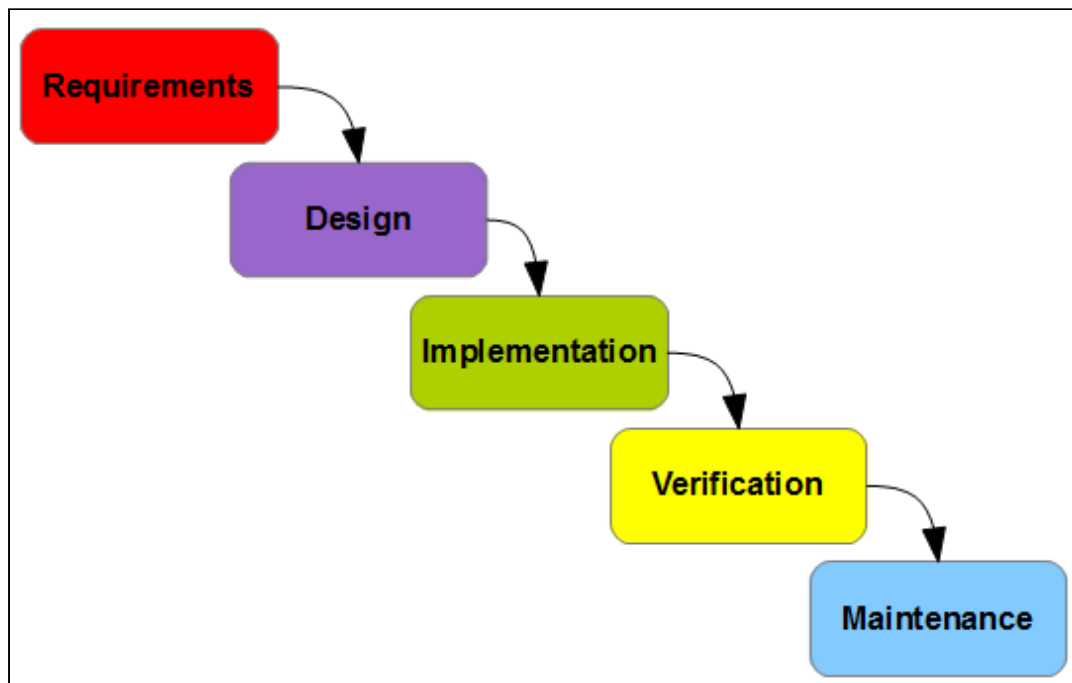


Figure 1 : Waterfall Model

Requirements:

All possible requirements of the system to be developed are captured in this phase and documented in a requirements specification document.

Design:

The requirement specification from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture.

Implementation:

With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as unit testing

Verification:

All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.

Maintenance:

There are some issues which come up in the client environment. To fix those issues, patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

2.1.2 Project Plan:

"A statement of how and a project's objectives are to achieved, by showing the major products, milestones, activities and resources required on the project."

Project Planning Activity Chart:

Task	Days	9-7-21 To 31-7-21	1-8-21 To 21-8-21	26-8-21 To 20-9-21	22-9-21 To 14-10-21	19-10-21 To 25-11-21	27-11-21 To 23-12-21	20-12-21 To 25-2-21
Project Definition	22	Requirement Gathering						
System	20		System					

Analysis			Analysis					
System Design Diagram	25			System Design				
Data Dictionary	22				Database			
Interface Design start	25					Interface Design		
Coding Start	25						Coding	
Testing	40							Testing

Table 1: Planning Chart

2.1.3 Milestones and Deliverables

2.1.3.1 Milestones:

When planning for the project series of milestones established. These milestones are end-point for software activity. It may be in form of report. some milestones which occurred in my project are discussed in below.

□ System requirements study:

In this milestone user requirement for system, like software requirements, hardware requirements and system's functional and non-functional requirements are decided.

Architecture design:

In this milestones design for software, its architecture design and also it graphical user interface also generated.

Coding:

In this milestones, the coding of the system is delivered that is the system is now partially ready to be delivered.

2.1.3.2 Deliverables:

Project Synopsis	This document gives on overview about the system of content management system and its features.	July-2021
Hardware and software Requirement Specification	The SRS specifies the systems users and their characteristics, functional and non-functional requirements of the system	Aug-2021
Hardware and software Project Management Plan	The SMTS describes how the project is to be carried on, team members and their role and responsibilities, and project scheduling.	Sep - 2021
System Design	This document includes all the UML diagrams, database design and screen layouts.	Oct - 2021 & Nov - 2021
Test Plan	This document includes the testing methods to be followed and the test cases for the system.	Feb - 2022

Table 2: Deliverable