



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section

Master

Course Code

(PMG506)

Date

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Advanced project Management

Project Name

GSM tower installation

Project Manger

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1. Introduction:

In this document I will explain project processes of the GSM tower implementation project, the purpose of this project to increase mobile coverage on the highway road and I was the project manager of the project and will consider the project is completed last month.

I will briefly explain two points the first is the project principle which I used (waterfall principle) after that will compare it with other principles because it is important to select the right principle before project started and the second point is Project Charter:

Will provide literature review to cover these points and will explain the results and conclusion.

2. Literature Review

The first official description of the waterfall model is often cited as the 1970 article Winston Royce, even though Royce did not use the term waterfall in that article.

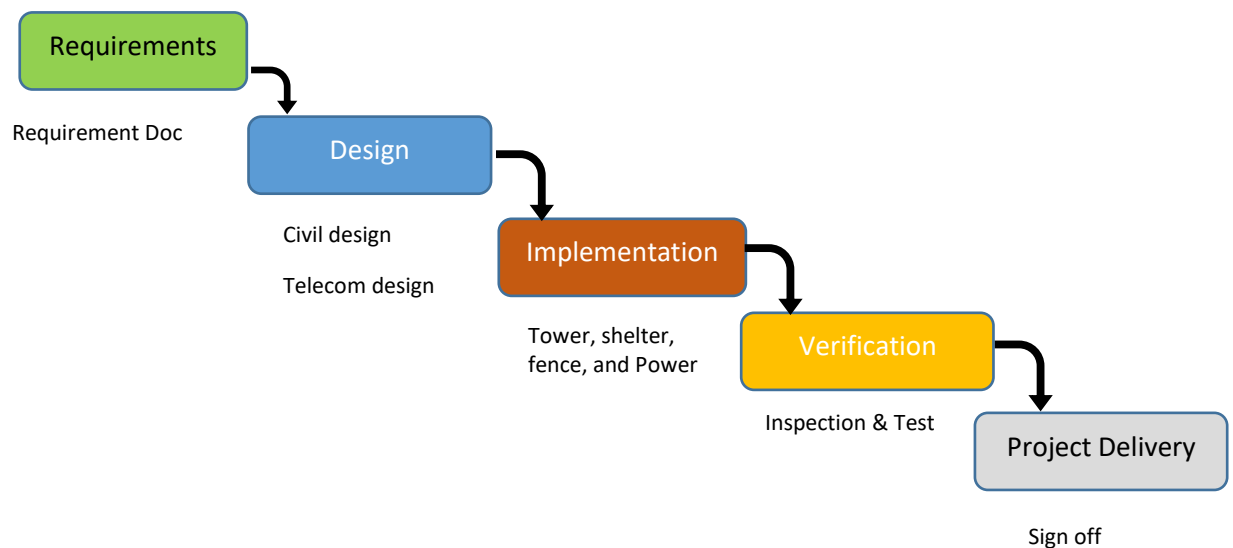
The waterfall model is connected to high costs and efforts. That is, it requires approval of many documents, changes are costly to implement, iterations take a lot of effort and rework, and problems are usually pushed to later phases [Sommerville 2004]. Few studies are explicitly focused on the waterfall model and some reasons for the failures of the waterfall approach have been identified, the most critical issues in waterfall development are related to requirements and verification.

3. Methodology

3.1 Project principle

We used waterfall principle on the project tasks as below:

Figure 1. Project Principal Waterfall Model



The waterfall model is a linear project management approach, where stakeholder and customer requirements are gathered at the beginning of the project, and then a sequential project plan is created to accommodate those requirements.

3.2 Project Charter:

The process of developing the project charter varies from organization to organization, but any project charter must contain the following elements

1. Overview
2. Objectives or Scope
3. General Approach
4. Contractual Aspects
5. Schedules
6. Resources
7. Personnel
8. Risk Management Plans
9. Evaluation Methods

In below project charter the purpose of a project and the scope will be described, and it was legally authorizing the beginning of the project.

Table 1. Project Charter

Project Name	GSM tower	Project code	GSM04
Project Manager	Amer Aldalbahi	Duration	3 months
Sponsor	Basem	Start Date	15/1/2021
Document Version and Date	V.01 1.1.2021	End Date	14/4/2021
Project Scope	Will increase GSM coverage in the highway road by install a new 60m GSM tower including fence, generator and microwave.		
Project Goals	To increase mobile coverage on the highway road.		
Project Deliverables	Tower 60m, fence 20X20 ,1 Generator,1 Base station, 2Microwave.		
Project budget	650,000 SAR		
High-Level Milestones	Design approval, tower foundation, tower installation, telecom equipment installation, fence installation, power connection, test and handover.		
Main Stakeholders	STC company, tower manufacturer vendor		

4. Results and Discussion:

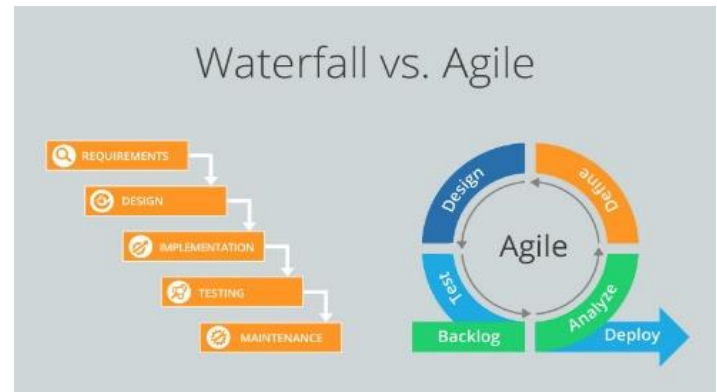
Agile is a methodology suited for software developers and engineers where requirements and their solutions change over time through collaboration by bridging the gap between cross-functional teams and the end user.

Figure 2. waterfall vs. Agile

The waterfall methodology is a process where project activities are broken down into linear phases.

The waterfall model usually has distinct goals for each phase of development.

Each phase must be completed before the project can move on to the next phase. It is particularly formal in execution, where phases are almost never repeated and exist in isolation.



Result of Project Charter

A formal, typically short document that describes your project in its entirety —including what the objectives are, how it will be carried out, and who the stakeholders are. It is a crucial ingredient in planning out the project because it is used throughout the project lifecycle.

A project charter is not simply a document stating facts and information about a project. It serves as the groundwork for effectively communicating with stakeholders and for efficiently routing work between actors that take part in the project.

5 . Reference :

- Sommerville, I.: Software Engineering, 7th edn. Pearson Education Ltd., London (2004)
- McBreen, P.: Software craftsmanship: the new imperative. Addison-Wesley, Boston (2002)
- Adetokunbo A.A. Adenowo, Basirat A. Adenowo Software Engineering Methodologies: A Review of the Waterfall Model and Object-Oriented Approach
- Everyone smart university, Advanced Project Management, PMG 506 , 2021