**Assignment No: 4**

**Complete Project Scheduling of Utility Store**

**Project Scheduling:-**

* The project schedule indicates what needs to be done, which resources must be utilized, and when the project is due. In short, it’s a timetable that outlines start and end dates and milestones that must be met for the project to be completed on time.
* A project schedule is a document collecting all the work needed to deliver the project on time.

**Effort Distribution**:-

* Each of the software project estimation technique leads to estimates of work units required to complete software development.
* A recommended distribution of efforts across the software process is often referred as the 40-20-40 rule.
* Forty- Percentage of all efforts is allocated to the front end analysis and design. A similar percentage is applied to back-end testing.20 percentage for coding
* Work expended on project planning rarely accounts for more than 2 to 3 percent of effort, unless the plan commits an organization to large expenditures with high risk. Customer communication and requirements analysis may comprise 10 to 25 percent of project effort.
* A range of 20 to 25 percent of effort is normally applied to software design. Because of the effort applied to software design, code should follow with relatively little difficulty. A range of 15 to 20 percent of overall effort can be achieved. Testing and subsequent debugging can account for 30 to 40 percent of software development effort. The criticality of the software often dictates the amount of testing that is required.
* Based on studies reported in the general industry literature, the distribution of effort across the software development life cycle is typically along the lines of the following:

|  |  |
| --- | --- |
| **Phase** | **Time in percentage** |
| Requirement Gathering | 10 |
| Requirement Analysis | 5 |
| Design | 25 |
| Implementation | 20 |
| Testing | 25 |
| Deployment | 15 |

**Project Scheduling for Utility Store**:-

The time required for completion of Utility Store project is estimated to be 9.65 months which could rounded to 10 months using the COCOMO Mode. Thus the number of days that fell within this period is 304 days. Thus the start day of the project is 17 July 2017 and end date should be 22 May 2018.

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **Start Date** | **End Date** | **Total Days** |
| Requirement gathering | 17-July-2017 | 16 –August -2017 | 30 |
| Requirement Analysis | 17-August-2017 | 1-September-2017 | 15 |
| Design | 2-September-2017 | 17-November-2017 | 76 |
| |  | | --- | | Implementation | | 18-November-2017 | 18-January-2018 | 61 |
| Testing | 19-January-2018 | 5-April-2018 | 76 |
| Deployment | 6-April-2018 | 22-May-2018 | 46 |

**Gantt chart:-**