**PROJECT SCHEDULING DOCUMENT**

# What is Project Scheduling?

Software project scheduling is an action that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks. It is important to note, however, that the schedule evolves over time.

During early stages of project planning, a macroscopic schedule is developed. This type of schedule identifies all major process framework activities and the product functions to which they are applied. As the project gets under way, each entry on the macroscopic schedule is refined into a detailed schedule. Here, specific software actions and tasks (required to accomplish an activity) are identified and scheduled.

# Effort Distribution for Software Development Activities:

A recommended distribution of effort across the software process is often referred to as the *40–20–40 rule.* Forty percent of all effort is allocated to frontend analysis and design. A similar percentage is applied to back-end testing. You can correctly infer that coding (20 percent of effort) is deemphasized.

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.

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| **Sr.no** | **Task** | **Distribution** |
| 1 | Requirement Gathering | 14% |
| 2 | Requirement Analysis | 5% |
| 3 | Designing | 20% |
| 4 | Implementation | 22% |
| 5 | Testing & Debugging | 22% |
| 6 | Deployment | 17% |

# Project Scheduling for E-Logistics Management

Using the COCOMO Model we estimated that E-Logistics Management Project would take **10.5 months (320 Days)** of Development Time.

As per this estimation the end date for the project would be **6th June, 2018** considering the start date to be **17th July, 2017**.

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| **Task Name** | **Start Date** | **End Date** | **Duration** |
| Requirement Gathering | 17-Jul | 31-Aug | 45 |
| Requirement Analysis | 31-Aug | 15-Sep | 15 |
| Designing | 15-Sep | 19-Nov | 65 |
| Implementation | 21-Nov | 1-Feb | 72 |
| Testing & Debugging | 2-Feb | 14-Apr | 70 |
| Deployment | 14-Apr | 6-Jun | 53 |