

### **Task/Activity Dependencies:**

1. Analysis Activity can start as soon as requirement document is complete.
  - a. **Requirements Review Rework → Write Analysis Document**
2. Design activity can start as soon as Analysis document is complete.
  - a. **Analysis Review Rework → Write DD**
3. Lab and Environment Setup can start as soon as requirements are complete.
  - a. **Requirements Review Rework → Install Server**
4. Data Model task can start when Detailed Design task finishes.
  - a. **Review DD Rework → Write DM**
5. Coding can start as soon as design and Lab and Environment setup are complete.
  - a. **Review DM Rework → Write Code**
  - b. **Install Development Tools → Write Code**
  - c. **Install Testing Tools → Write Code**
6. Writing Test Plan can start as soon as requirements are complete.
  - a. **Requirements Review Rework → Write Test Plan (TP)**
7. Executing Test Plan can start as soon as coding is complete.
  - a. **Code Inspection Rework → Execute TP (test cases)**
8. Documentation can start as soon as requirements are complete.
  - a. **Requirements Review Rework → User Documentation**
9. Documentation review can start as soon as defects are fixed.
  - a. **Fix Found Defects → Preparation for UD**

### **Resource Allocation comments:**

For each and every task, I checked which of the resources are available during that task time period and allocated the resources accordingly. There are some scenarios where none of the resources are available (already allocated to different tasks in Assignment#1). For such tasks, I have allocated the resources and used the 'Level All' option to resolve the conflicts. The task start and finish dates of Assignment#2 have been pushed back to resolve the conflict.

**Questions:**

1. **What is the earliest finish date for this project if it is scheduled to start on 7/29/16 (Under this scenario, as soon as engineers complete their tasks on Homework#1 you will assign them to start working on tasks for Homework#2 project)?**

The earliest finish date for this project if the project is scheduled to start on 7/29/2016 (July 29<sup>th</sup> 2016) is **11/30/2016** (November 30<sup>th</sup> 2016).

2. **Is it feasible to complete this project (Assignment#2 project) 3 weeks after the completion date you identified for the project in Assignment#1? Explain?**

Given the current resource pool, it is not feasible to complete the Assignment#2 project within 3 weeks of completion of Assignment#1 project (11/28/2016 is the 3 week date after the completion of Assignment#1 project). However, it is possible if more Requirement Engineers are provided. During the period from 8/29 to 10/2, the resources RE103, RE117, RE118 and RE119 are working on Assignment#2 tasks and Assignment#1 tasks in-parallel and the remaining requirement engineers are working on Assignment#1 tasks. This causes delay in the completing the Assignment#2 tasks and hence the finish date is pushed back. By providing more requirement engineers, the tasks can be completed more quickly and the Assignment#2 should be completed within 3 weeks of completion of Assignment#1.