**ACTIVITY NETWORKS**

|  |  |
| --- | --- |
| **ACTIVITY** | **DUIRATION (IN HOURS)**  **estimated** |
| **Phase 1 Planning**   1. **Planning:**    1. C-maps    2. Gantt chart    3. Risk Analysis    4. Activity Networks   **Phase 2 Design**   1. **Designing:** 2. domain model 3. use-cases & use-case text 4. robustness diagram 5. sequence diagram 6. class diagram   **Phase 3 Implementation**   1. **CLIENTS PAGE (**SUBSCRIPTION, JOB UPDATES, ) 2. **LOGIN PAGE (**for management, staffs, clients) 3. **MAIN PAGE** 4. **SERVICES PAGE (**For example, foundation, fencing, window and door, roofing, lintel and decking etc.) 5. **SUPPLIERS PAGE** 6. **EMPLOYEES, SKILLS &( AVAILABILITY PAGE)** 7. **INVOICES, PAYMENT RECORDS,UPDATES & NOTIFICATIONS OF DELIVERY(** from suppliers to delivery companies 8. **Testing (PARAMETERISED TESTING OR UNIT TESTING)** 9. **Phase 4 Documentation & Maintenance** | **6 hours**  **20 hours**  **20 hours**  **20 hours**  **20 hours**  **20 hours**  **20 hours**  **20 hours**  **20 hours**  **20 hours**  **6 hours** |

**NOTE**

Work must be done according to the phases. (phase1, 2, 3 & 4). Within the phases some activities can only be started when others are completed, for example in phase 1, **Activity B1 (domain model)** must be completed before we are able to start **Activity B3 (robustness diagram)**

**The table shows which activities must follow which:**

**VERTICES CHOSEN**

**F G I**

**A B D E K**

C H J

**NOTE:** The critical path is where the early star and late start have the same start and finish times (IN HOURS)

**DURATION=20 FLOAT=20 DURATION=20 FLOAT=20 DURATION=20 FLOAT=20**

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| --- | --- | --- |
| **46** |  | **66** |
|  | **I** |  |
| **67** |  | **86** |

|  |  |  |
| --- | --- | --- |
| **26** |  | **46** |
|  | **G** |  |
| **47** |  | **66** |

|  |  |  |
| --- | --- | --- |
| **26** |  | **46** |
|  | **F** |  |
| **47** |  | **66** |

|  |  |  |
| --- | --- | --- |
| **66** |  | **86** |
|  | **E** |  |
| **66** |  | **86** |

|  |  |  |
| --- | --- | --- |
| **26** |  | **46** |
|  | **D** |  |
| **26** |  | **46** |

|  |  |  |
| --- | --- | --- |
| **1** |  | **6** |
|  | **A** |  |
| **1** |  | **6** |

|  |  |  |
| --- | --- | --- |
| **86** |  | **92** |
|  | **K** |  |
| **86** |  | **92** |

**DURATION = 6 DURATION = 20 DURATION= 20 DURATION=20 DURATION=6**

|  |  |  |
| --- | --- | --- |
| **6** |  | **26** |
|  | **B** |  |
| **6** |  | **26** |

**DRAG= 6 DRAG= 20 DRAG= 20 DRAG= 20 DRAG= 6**

|  |  |  |
| --- | --- | --- |
| **26** |  | **46** |
|  | **H** |  |
| **47** |  | **66** |

|  |  |  |
| --- | --- | --- |
| **46** |  | **66** |
|  | **J** |  |
| **67** |  | **86** |

|  |  |  |
| --- | --- | --- |
| **26** |  | **46** |
|  | **C** |  |
| **47** |  | **66** |

**DURATION=20 DURATION=20 DURATION=20**

**KEY FLOAT= 20 FLOAT= 20 FLOAT=20**

**EARLIEST START & FINISH**

**LATEST START & FINISH**

**FLOAT HOURS**

**CRITICAL PATH**

DRAG = DELAY TIME