**IT/SOFTWARE PROJECT MANAGEMENT ASSIGNMENT 1&2**

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**SCT321-C004-2079/2018**

**MIT3105 IT PROJECT MANAGEMENT**

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**Assignment One**

You as a project manager has identified the below activities and durations for a project you are undertaking.

|  |  |
| --- | --- |
| **Activity** | **Duration (Weeks)** |
| Requirement gathering and website specification on functionality | 2 |
| Web site design | 1 |
| Database design | 2 |
| Implementation and programming | 3 |
| Security and functionality Testing | 1 |
| Deployment | 1 |
| Training of Administrators and Users | 2 |
| **Total** | **12 Weeks** |

**Required:**

1. **Propose the activity sequence (precedence) for this project. Justify your choice.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Activity** | **Activity description** | **Duration (Weeks)** | **Precedents** |
| A | Requirement gathering and website specification on functionality | 2 | - |
| B | Web site design | 1 | A |
| C | Database design | 2 | A |
| D | Implementation and programming | 3 | B,C |
| E | Security and functionality Testing | 1 | D |
| F | Deployment | 1 | E |
| G | Training of Administrators and Users | 2 | F |
|  | **Total** | **12 Weeks** |  |

**Justification**

The initial activity is the (A) - requirement gathering and website specification on functionality as it gives the basis on what to be done, what is expected at the end of the project, thus it being a precedent for the upcoming activities for the project.

Web design (B) should start immediately after requirement gathering and website specification on functionality as it builds on it. At this stage Database design (C) can run together as they rely on activity (A) success/completion.

Implementation and programming (D) can begin on the last week of database design (C) to allow iteration for any handles arising on the implementation which may arise due to scalability of the database during implementation which as a result alters the database design.

Security and functionality Testing (E) activity should start after the completion of activity (D). This is attributed to the nature of the activity as its success depends on how well and successful activity (D) was. Activity (F) Deployment and (G) Training of Administrators and Users follows respectively and they cannot run concurrently and one has to end or be at a position where the other can execute.

1. **Draw a Gantt chart for this project (on paper).**

Gantt chart is a visual representation of the project activities and their duration. The chart has two axis, vertical and horizontal. The vertical axis represents the activities, while the horizontal axis represents the duration, as shown below

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | WEEKS | | | | | | | | | | | |
| ACTIVITY | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A |  |  |  |  |  |  |  |  |  |  |  |  |
| B |  |  |  |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  |  |  |  |  |  |  |  |  |  |  |
| G |  |  |  |  |  |  |  |  |  |  |  |  |

1. **Draw an activity on node diagram for this project (on paper).**

**START**

A 2

B 2

F 2

E 2

G 2

C 2

D 2

**FINISH**

Activity on node diagram is a network analysis diagram where the arrow represents the event and the node represents the activity

1. Using a project management software of your choice draw the Gantt chart and Activity on Node diagram for this project. Choose a project start date for your diagrams.

**Assignment Two**

A company is experiencing a drastic reduction in failed projects. Discuss four possible reasons for this.