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CSC355 – Software Engineering II

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SAS: Dependencies Chart

PD = Planned Duration, PE = Planned Effort, AD = Actual Duration, AE = Actual Effort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Activity** | **Resources** | **PD (wks)** | **PE (pwks)** | **AD**  **(wks)** | **AE**  **(pwks)** | **Dependencies** |
| 10 | Plan project | 3: GP, AD, PG | 10 | 30 | 10 | 30 | - |
| 20 | Collect raw data | 1: GP | 2 | 2 | 2 | 2 | 10 |
| 30 | Analyze raw data | 2: GP, PG | 4 | 8 | 4 | 8 | 20 |
| 40 | Create ER diagram | 2: AD, PG | 2 | 4 | 2 | 4 | 30 |
| 50 | Analyze ER diagram (advising algorithm) | 2: GP, AD | 2 | 4 | 2 | 4 | 40 |
| 60 | Analyze ER diagram (scheduling algorithm) | 2: PG, AD | 2 | 4 | 2 | 4 | 40 |
| 70 | Design adviser UI | 1: PG | 6 | 6 | 6 | 6 | 40 |
| 80 | Design advising algorithm | 1: GP | 6 | 6 | 6 | 6 | 50 |
| 90 | Design scheduling algorithm | 1: AD | 6 | 6 | 6 | 6 | 60 |
| 100 | Implement advising algorithm | 1: GP | 4 | 4 |  |  | 70 |
| 110 | Implement scheduling algorithm | 1: AD | 3 | 3 |  |  | 80 |
| 120 | Implement adviser UI | 1: PG | 6 | 6 |  |  | 90 |
| 130 | Test advising algorithm | 1: AD | 6 | 6 |  |  | 100 |
| 140 | Test scheduling algorithm | 1: PG | 4 | 4 |  |  | 110 |
| 150 | Test adviser UI | 1: GP | 4 | 4 |  |  | 120 |
| 160 | Connect modules | 3: GP, AD, PG | 2 | 6 |  |  | 130, 140, 150 |
| 170 | Test SAS | 3: GP, AD, PG | 2 | 6 |  |  | 160 |
| 180 | Deploy SAS | 3: GP, AD, PG | 2 | 6 |  |  | 170 |
| - | TOTAL | - | 69 | 115 |  |  | - |

Why We Used the Expert Judgment Method

The Expert Judgment Method was chosen as the time estimate technique of choice for this project. Because we have no previous work to take information on our past projects, we can’t use many of the algorithmic models as they would just be based off of our own estimations anyway. Therefore, the Expert Judgment Method is the best for the estimation of our project. It’s based on our own estimations and gives us a way to refine our estimations without using methods that take a lot of time to get the same result.