Answer number 1

**System Analysis**

* Develop project plan

**System Design**

* Design system Architecture
* Install and setup software’s
* System development
* Hosting

**System testing**

* Testing

**Deployment**

* Hosting
* Train end users

Answer number 2

**Time Estimation**

**Expected time**

(O + 4\*M + P) / 6 = TE

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| --- | --- | --- | --- | --- |
| **Task** | **Time optimistic** | **Time normal** | **Time Pessimistic** | **Time Expected** |
| Develop project plan | 48 hours | 52hours | 60 hours | 52 hours |
| Design System architecture | 24 hours | 29 hours | 35 hours | 29 hours |
| Install and setup software’s | 16 hours | 21 hours | 30 hours | 21 hours |
| System Development | 272 hours | 290 hours | 300 hours | 288 hours |
| Testing | 100 hours | 115 hours | 130 hours | 115 hours |
| Deployment | 24 hours | 30 hours | 41 hours | 30 hours |
| Train End users | 16 hours | 23 hours | 33 hours | 23 hours |
| **Total Time Expected to finish the project** | | | | **558 hours** |

|  |  |  |
| --- | --- | --- |
| Develop project plan | | |
| **Duration** | **Start Date** | **End Date** |
| 2 days | 02 -December-2019 | 06 -December-2019 |
| **Slack 0** | | |

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| Design System architecture | | |
| **Duration** | **Start Date** | **End Date** |
| 3 days | 09 -December-2019 | 11 -December-2019 |
| **Slack 0** | | |

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| Install and setup software’s | | |
| **Duration** | **Start Date** | **End Date** |
| 2 days | 12 -December-2019 | 13 -December-2019 |
| **Slack 0** | | |

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| System Development | | |
| **Duration** | **Start Date** | **End Date** |
| 36 days | 17 -December-2019 | 14-February-2020 |
| **Slack 5** | | |

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| **Testing** | | |
| **Duration** | **Start Date** | **End Date** |
| 3 days | 17- February -2020 | 19 - February -2020 |
| **Slack 2 days** | | |

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| --- | --- | --- |
| **Deployment** | | |
| **Duration** | **Start Date** | **End Date** |
| 2 days | 20 - February -2020 | 21 - February -2020 |
| **Slack 1 day** | | |

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| --- | --- | --- |
| **Train End users** | | |
| **Duration** | **Start Date** | **End Date** |
| 2 days | 24 - February -2020 | 25 - February -2020 |
| **Slack 0** | | |

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| --- | --- |
| **Total Expected length of a project** | 50 days |
| **Soonest possible date** | 25 -Februay-2020 |
| **Latest possible completion date** | 30 -February-2020 |
| **Total slack** | 8 days |