1. Task Plan

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Task Name | Duration | Predecessors |
| 1 | **SMS project** | **72 days** |  |
| 2 | **Initiating** | **5 days** |  |
| 3 | Generate project ideas | 1 day |  |
| 4 | **Create Report 1: Project Introduction** | **3 days** |  |
| 5 | Repare Report 1 | 1 day |  |
| 6 | Update Report 1 | 1 day | 5 |
| 7 | Review and finalize Report 1 | 0.5 days | 6 |
| **8** | **Release Report 1** | **0.5 days** | **7** |
| 9 | Hold kick-off meeting | 1 day | 4 |
| 10 | **Planing** | **5 days** | **2** |
| 11 | Create project plan | 1 day |  |
| 12 | **Create Report 2: Software Project Management Plan** | **4 days** | **11** |
| 13 | Repare Report 2 | 1 day |  |
| 14 | Update Report 2 | 1 day | 13 |
| 15 | Review and finalize Report 2 | 1 day | 14 |
| **16** | **Release Report 2** | **1 day** | **15** |
| 17 | **Executing** | **58 days** | **10** |
| 18 | **Analysis** | **7 days** |  |
| 19 | Research Yakindu Toolkit | 2 days |  |
| 20 | Research and buy Microchip | 2 days |  |
| 21 | **Write requirements** | **3 days** |  |
| 22 | Repare question list | 1 day |  |
| 23 | Get requirements from customer | 2 days | 22 |
| 24 | **Create Report 3: Software Requirement Specification (SRS)** | **4 days** | **21** |
| 25 | Repare Report 3 | 1 day | 21 |
| 26 | Update Report 3 | 1 day | 25 |
| 27 | Review and finalize Report 3 | 1 day | 26 |
| **28** | **Release Report 3** | **1 day** | **27** |
| 29 | **Design** | **9 days** | **18** |
| 30 | Database design | 2 days |  |
| 31 | Architecture design | 2 days |  |
| 32 | Detailed design | 2 days |  |
| 33 | **Design Embeebed device** | **4 days** |  |
| 34 | Design electric device board | 3 days |  |
| 35 | Print board | 1 day | 34 |
| 36 | **Create Yakindu Statecharts** | **2 days** | **30,31,32** |
| 37 | Statecharts for SMO device | 2 days |  |
| 38 | Statecharts for SMR device | 2 days |  |
| 39 | Statecharts for SMC device | 2 days |  |
| 40 | **Create Report 4: Software Design Description (SDD)** | **5 days** | **30,31,32** |
| 41 | Repare Report 4 | 1 day |  |
| 42 | Update Report 4 | 1 day | 41 |
| 43 | Review and finalize Report 4 | 1 day | 42 |
| **44** | **Release Report 4** | **1 day** | **43** |
| 45 | **Implementation** | **29 days** | **29** |
| 46 | Create coding framework | 2 days |  |
| 47 | **Coding system on Hardware Device** | **13 days** | **46** |
| 48 | **Coding for SMO device** | **6 days** | **46** |
| 49 | Generate code C language | 2 days |  |
| 50 | Convert to assembly language | 2 days | 49 |
| 51 | Embed to hardware device | 2 days | 50 |
| 52 | **Coding for SMR device** | **7 days** | **48** |
| 53 | Generate code C language | 2 days |  |
| 54 | Convert to assembly language | 2 days | 53 |
| 55 | Embed to hardware device | 2 days | 54 |
| 56 | **Coding for SMC device** | **7 days** | **48** |
| 57 | Generate code C language | 2 days |  |
| 58 | Convert to assembly language | 2 days | 57 |
| 59 | Embed to hardware device | 2 days | 58 |
| 60 | **Coding system on Personal Computer** | **14 days** | **47** |
| 61 | Code Management feature | 6 days |  |
| 62 | Code Billing feature | 6 days | 61 |
| 63 | Code Statistics feature | 6 days | 61 |
| 64 | Build and Review code | 2 days | 61,62,63 |
| 65 | Create Software User Mannual (SUM) document | 2 days |  |
| 66 | **Testing** | **11 days** | **45** |
| 67 | Write system test case | 1 day |  |
| 68 | Execute system test | 3 days | 67 |
| 69 | System test completed | 1 day | 68 |
| 70 | **Create Report 5: Software Test Documentation (STD)** | **4 days** | **67,56,69** |
| 71 | Repare Report 5 | 1 day |  |
| 72 | Update Report 5 | 1 day | 71 |
| 73 | Review and finalize Report 5 | 1 day | 72 |
| **74** | **Release Report 5** | **1 day** | **73** |
| 75 | **Create Report 6: Software User Manual (SUM)** | **5 days** |  |
| 76 | Repare Report 6 | 1 day |  |
| 77 | Update Report 6 | 1 day | 76 |
| 78 | Review and finalize Report 6 | 1 day | 77 |
| **79** | **Release Report 6** | **1 day** | **78** |
| 80 | **Deployment** | **4 days** | **66** |
| 81 | Input initial data | 2 days |  |
| 82 | System deployed | 1 day | 81 |
| 83 | **Closing** | **5 days** | **17** |
| 84 | Prepare final project presentation | 4 days |  |
| 85 | Project presentation | 2 hrs | 84 |
| 86 | Project completed | 0 days | 85 |

1. Detail Plan with Assignment:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Task Name | Start | Finish | Resource Names |
| 1 | **SMS project** | **Mon 9/10/12** | **Tue 12/18/12** |  |
| 2 | **Initiating** | **Mon 9/10/12** | **Fri 9/14/12** |  |
| 3 | Generate project ideas | Mon 9/10/12 | Mon 9/10/12 | ThanhLCM,TrungTM |
| 4 | **Create Report 1: Project Introduction** | **Tue 9/11/12** | **Thu 9/13/12** |  |
| 5 | Repare Report 1 | Tue 9/11/12 | Tue 9/11/12 | ThanhLCM |
| 6 | Update Report 1 | Wed 9/12/12 | Wed 9/12/12 | TrungTM,CuongNT,KhoiMN |
| 7 | Review and finalize Report 1 | Thu 9/13/12 | Thu 9/13/12 | DucHA |
| **8** | **Release Report 1** | **Thu 9/13/12** | **Thu 9/13/12** | **ThanhLCM** |
| 9 | Hold kick-off meeting | Fri 9/14/12 | Fri 9/14/12 |  |
| 10 | **Planing** | **Fri 9/14/12** | **Thu 9/20/12** |  |
| 11 | Create project plan | Fri 9/14/12 | Fri 9/14/12 | TrungTM,DucHA |
| 12 | **Create Report 2: Software Project Management Plan** | **Mon 9/17/12** | **Thu 9/20/12** |  |
| 13 | Repare Report 2 | Mon 9/17/12 | Mon 9/17/12 | TrungTM |
| 14 | Update Report 2 | Tue 9/18/12 | Tue 9/18/12 | DucHA,CuongNT,KhoiMN |
| 15 | Review and finalize Report 2 | Wed 9/19/12 | Wed 9/19/12 | TrungTM |
| **16** | **Release Report 2** | **Thu 9/20/12** | **Thu 9/20/12** | **ThanhLCM** |
| 17 | **Executing** | **Fri 9/21/12** | **Tue 12/11/12** |  |
| 18 | **Analysis** | **Fri 9/21/12** | **Mon 10/1/12** |  |
| 19 | Research Yakindu Toolkit | Fri 9/21/12 | Mon 9/24/12 | TrungTM,ThanhLCM |
| 20 | Research and buy Microchip | Fri 9/21/12 | Mon 9/24/12 | KhoiMN |
| 21 | **Write requirements** | **Fri 9/21/12** | **Tue 9/25/12** |  |
| 22 | Repare question list | Fri 9/21/12 | Fri 9/21/12 | DucHA |
| 23 | Get requirements from customer | Mon 9/24/12 | Tue 9/25/12 | CuongNT |
| 24 | **Create Report 3: Software Requirement Specification (SRS)** | **Wed 9/26/12** | **Mon 10/1/12** |  |
| 25 | Repare Report 3 | Wed 9/26/12 | Wed 9/26/12 | ThanhLCM,DucHA |
| 26 | Update Report 3 | Thu 9/27/12 | Thu 9/27/12 | TrungTM,DucHA,CuongNT |
| 27 | Review and finalize Report 3 | Fri 9/28/12 | Fri 9/28/12 | KhoiMN |
| **28** | **Release Report 3** | **Mon 10/1/12** | **Mon 10/1/12** | **ThanhLCM** |
| 29 | **Design** | **Tue 10/2/12** | **Fri 10/12/12** |  |
| 30 | Database design | Tue 10/2/12 | Wed 10/3/12 | TrungTM,KhoiMN |
| 31 | Architecture design | Tue 10/2/12 | Wed 10/3/12 | ThanhLCM |
| 32 | Detailed design | Tue 10/2/12 | Wed 10/3/12 | DucHA,CuongNT |
| 33 | **Design Embeebed device** | **Thu 10/4/12** | **Tue 10/9/12** |  |
| 34 | Design electric device board | Thu 10/4/12 | Mon 10/8/12 | ThanhLCM |
| 35 | Print board | Tue 10/9/12 | Tue 10/9/12 | KhoiMN |
| 36 | **Create Yakindu Statecharts** | **Thu 10/4/12** | **Fri 10/5/12** |  |
| 37 | Statecharts for SMO device | Thu 10/4/12 | Fri 10/5/12 | DucHA |
| 38 | Statecharts for SMR device | Thu 10/4/12 | Fri 10/5/12 | TrungTM |
| 39 | Statecharts for SMC device | Thu 10/4/12 | Fri 10/5/12 | CuongNT |
| 40 | **Create Report 4: Software Design Description (SDD)** | **Mon 10/8/12** | **Fri 10/12/12** |  |
| 41 | Repare Report 4 | Mon 10/8/12 | Mon 10/8/12 | TrungTM,KhoiMN |
| 42 | Update Report 4 | Tue 10/9/12 | Tue 10/9/12 | CuongNT,DucHA |
| 43 | Review and finalize Report 4 | Wed 10/10/12 | Wed 10/10/12 | TrungTM |
| **44** | **Release Report 4** | **Thu 10/11/12** | **Thu 10/11/12** | **ThanhLCM** |
| 45 | **Implementation** | **Fri 10/12/12** | **Wed 11/21/12** |  |
| 46 | Create coding framework | Fri 10/12/12 | Mon 10/15/12 | ThanhLCM,TrungTM |
| 47 | **Coding system on Hardware Device** | **Tue 10/16/12** | **Thu 11/1/12** |  |
| 48 | **Coding for SMO device** | **Tue 10/16/12** | **Tue 10/23/12** | ThanhLCM |
| 49 | Generate code C language | Tue 10/16/12 | Wed 10/17/12 |  |
| 50 | Convert to assembly language | Thu 10/18/12 | Fri 10/19/12 |  |
| 51 | Embed to hardware device | Mon 10/22/12 | Tue 10/23/12 |  |
| 52 | **Coding for SMR device** | **Wed 10/24/12** | **Thu 11/1/12** |  |
| 53 | Generate code C language | Wed 10/24/12 | Thu 10/25/12 | TrungTM |
| 54 | Convert to assembly language | Fri 10/26/12 | Mon 10/29/12 | KhoiMN |
| 55 | Embed to hardware device | Tue 10/30/12 | Wed 10/31/12 | TrungTM |
| 56 | **Coding for SMC device** | **Wed 10/24/12** | **Thu 11/1/12** |  |
| 57 | Generate code C language | Wed 10/24/12 | Thu 10/25/12 | DucHA |
| 58 | Convert to assembly language | Fri 10/26/12 | Mon 10/29/12 | CuongNT |
| 59 | Embed to hardware device | Tue 10/30/12 | Wed 10/31/12 | DucHA |
| 60 | **Coding system on Personal Computer** | **Fri 11/2/12** | **Wed 11/21/12** |  |
| 61 | Code Management feature | Fri 11/2/12 | Fri 11/9/12 | ThanhLCM |
| 62 | Code Billing feature | Mon 11/12/12 | Mon 11/19/12 | TrungTM,KhoiMN |
| 63 | Code Statistics feature | Mon 11/12/12 | Mon 11/19/12 | CuongNT,DucHA |
| 64 | Build and Review code | Tue 11/20/12 | Wed 11/21/12 | ThanhLCM |
| 65 | Create Software User Mannual (SUM) document | Fri 10/12/12 | Mon 10/15/12 | CuongNT,KhoiMN,DucHA |
| 66 | **Testing** | **Thu 11/22/12** | **Thu 12/6/12** |  |
| 67 | Write system test case | Thu 11/22/12 | Thu 11/22/12 | DucHA |
| 68 | Execute system test | Fri 11/23/12 | Tue 11/27/12 | CuongNT,KhoiMN |
| 69 | System test completed | Wed 11/28/12 | Wed 11/28/12 | TrungTM |
| 70 | **Create Report 5: Software Test Documentation (STD)** | **Thu 11/29/12** | **Tue 12/4/12** |  |
| 71 | Repare Report 5 | Thu 11/29/12 | Thu 11/29/12 | TrungTM |
| 72 | Update Report 5 | Fri 11/30/12 | Fri 11/30/12 | CuongNT,KhoiMN |
| 73 | Review and finalize Report 5 | Mon 12/3/12 | Mon 12/3/12 | DucHA |
| **74** | **Release Report 5** | **Tue 12/4/12** | **Tue 12/4/12** | **ThanhLCM** |
| 75 | **Create Report 6: Software User Manual (SUM)** | **Fri 11/30/12** | **Thu 12/6/12** |  |
| 76 | Repare Report 6 | Fri 11/30/12 | Fri 11/30/12 | TrungTM |
| 77 | Update Report 6 | Mon 12/3/12 | Mon 12/3/12 | CuongNT,KhoiMN |
| 78 | Review and finalize Report 6 | Tue 12/4/12 | Tue 12/4/12 | DucHA |
| **79** | **Release Report 6** | **Wed 12/5/12** | **Wed 12/5/12** | **ThanhLCM** |
| 80 | **Deployment** | **Thu 12/6/12** | **Tue 12/11/12** |  |
| 81 | Input initial data | Thu 12/6/12 | Fri 12/7/12 | CuongNT,KhoiMN |
| 82 | System deployed | Mon 12/10/12 | Mon 12/10/12 | TrungTM,DucHA |
| 83 | **Closing** | **Wed 12/12/12** | **Tue 12/18/12** |  |
| 84 | Prepare final project presentation | Wed 12/12/12 | Mon 12/17/12 | DucHA,TrungTM,CuongNT,KhoiMN,ThanhLCM |
| 85 | Project presentation | Tue 12/18/12 | Tue 12/18/12 | CuongNT,DucHA,KhoiMN,ThanhLCM,TrungTM |
| 86 | Project completed | Tue 12/18/12 | Tue 12/18/12 |  |