|  |  |  |  |
| --- | --- | --- | --- |
| ID | Task Name | Duration | Predecessors |
| **1** | **SMS project** | **85 days** |  |
| **1.1** | **Initiating** | **8 days** |  |
| 1.1.1 | Generate project ideas | 1 day |  |
| 1.1.2 | Create Report 1: Project Introduction | 3 days |  |
| 1.1.3 | Review Report 1 | 1 day |  |
| 1.1.4 | Update and finalize Report 1 | 1 day |  |
| 1.1.5 | Hold kick-off meeting | 1 day |  |
| **1.1.6** | **Release Report 1: Introduction** | **1 day** |  |
| **1.2** | **Planning** | **5 days** |  |
| 1.2.1 | Create project plan | 1 day |  |
| 1.2.2 | Create Report 2: Software Project Management Plan | 3 days |  |
| 1.2.3 | Review, Update and finalize Report 2 | 0.9 days |  |
| **1.2.4** | **Release Report 2: Software Project Management Plan** | **0.1 days** |  |
| **1.3** | **Executing** | **70 days** |  |
| **1.3.1** | **Analysis** | **15 days** |  |
| 1.3.1.1 | Research Yakindu Toolkit | 1 days |  |
| 1.3.1.2 | Research and buy Microchip | 2 days |  |
| 1.3.1.3 | Write requirements | 2 days |  |
| 1.3.1.4 | Create Software Requirement Specification (SRS) document | 8 days |  |
| 1.3.1.5 | SRS completed | 1 day |  |
| **1.3.1.6** | **Release Report 3: Software Requirement Specification** | **1 day** |  |
| **1.3.2** | **Design** | **10 days** |  |
| 1.3.2.1 | Database design | 3 days |  |
| 1.3.2.2 | Architecture design | 2 days |  |
| 1.3.2.3 | Detailed design | 4 days |  |
| 1.3.2.4 | Create Yakindu Statecharts | 1 days |  |
| 1.3.2.5 | Create Software Design Description (SDD) document | 5 days |  |
| **1.3.2.6** | **Release Report 4: Software Detailed Design** | **1 day** |  |
| **1.3.3** | **Implementation** |  |  |
| 1.3.3.1 | Create coding framework | 2 days |  |
| 1.3.3.2 | GUI design | 2 days |  |
| 1.3.3.3 | **Coding system on Hardware Device** | **16 days** |  |
| 1.3.3.3.1 | Generate code C language | 3 days |  |
| 1.3.3.3.2 | Convert to assembly language | 4 days |  |
| 1.3.3.3.3 | Embed to hardware device | 9 days |  |
| 1.3.3.4 | Coding completed | 1 day |  |
| 1.3.3.4 | **Coding system on Personal Computer (Web application)** | **12 days** |  |
| 1.3.3.6 | Coding completed | 1 day |  |
| 1.3.3.7 | Create Software User Mannual (SUM) document | 10 days |  |
| **1.3.4** | **Testing** | **5 days** |  |
| 1.3.4.1 | Write system test case | 1 day |  |
| 1.3.4.2 | Execute system test | 3 days |  |
| 1.3.4.3 | System test completed | 1 day |  |
| 1.3.4.4 | Update Software User Mannual (SUM) document | 10 days |  |
| 1.3.4.5 | Create Software Test Documentation (STD) document | 5 days |  |
| **1.3.4.6** | **Release Report 5: Software Test Documentation** | **1 day** |  |
| **1.3.4.7** | **Release Report 6: Software User Manual** | **1 day** |  |
| 1.3.5 | **Deployment** | **5 days** |  |
| 1.3.5.1 | Input initial data | 4 days |  |
| 1.3.5.2 | System deployed | 1 day |  |
| 1.3.6 | **Closing** | **5 days** |  |
| 1.3.6.1 | Prepare final project presentation | 4 days |  |
| 1.3.6.2 | Project presentation | 2 hrs |  |
| 1.3.6.3 | Project completed | 0 days |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Task Name | Start | Finish | Resource Names |
| **1** | **SMS project** | **Mon 9/10/12** |  |  |
| **1.1** | **Initiating** | **Mon 9/10/12** | **Tue 9/18/12** |  |
| 1.1.1 | Generate project ideas | Mon 9/10/12 | Mon 9/10/12 |  |
| 1.1.2 | Create Report 1: Project Introduction | Tue 9/11/12 | Thu 9/13/12 |  |
| 1.1.3 | Review Report 1 | Fri 9/14/12 | Fri 9/14/12 |  |
| 1.1.4 | Update and finalize Report 1 | Mon 9/17/12 | Tue 9/17/12 |  |
| 1.1.5 | Hold kick-off meeting | Fri 9/14/12 | Sat 9/15/12 |  |
| **1.1.6** | **Release Report 1: Introduction** | **Tue 9/18/12** | **Tue 9/18/12** |  |
| **1.2** | **Planning** | **Mon 9/17/12** | **Fri 9/21/12** |  |
| 1.2.1 | Create project plan | Mon 9/17/12 | Mon 9/17/12 |  |
| 1.2.2 | Create Report 2: Software Project Management Plan | Tue 9/18/12 | Thu 9/20/12 |  |
| 1.2.3 | Review, Update and finalize Report 2 | Fri 9/21/12 | Fri 9/21/12 |  |
| **1.2.4** | **Release Report 2: Software Project Management Plan** | **Fri 9/21/12** | **Fri 9/21/12** |  |
| **1.3** | **Executing** | **Mon 9/17/12** |  |  |
| **1.3.1** | **Analysis** | **Mon 9/17/12** | **Fri 10/5/12** |  |
| 1.3.1.1 | Research Yakindu Toolkit | Tue 9/18/12 | Tue 9/18/12 |  |
| 1.3.1.2 | Research and buy Microchip | Wed 9/19/12 | Wed 9/19/12 |  |
| 1.3.1.3 | Write requirements | Thu 9/20/12 | Mon 9/24/12 |  |
| 1.3.1.4 | Create Software Requirement Specification (SRS) document | Tue 9/25/12 | Thu 10/4/12 |  |
| 1.3.1.5 | SRS completed | Thu 10/4/12 | Fri 10/5/12 |  |
| **1.3.1.4** | **Release Report 3: Software Requirement Specification** | **Fri 10/5/12** | **Fri 10/5/12** |  |
| **1.3.2** | **Design** | **Mon 10/1/12** | **Fri 10/12/12** |  |
| 1.3.2.1 | Database design | Mon 10/1/12 | Wed 10/3/12 |  |
| 1.3.2.2 | Architecture design | Thu 10/4/12 | Fri 10/5/12 |  |
| 1.3.2.3 | Detailed design | Mon 10/8/12 | Thu 10/11/12 |  |
| 1.3.2.4 | Create Yakindu Statecharts | Mon 10/1/12 | Mon 10/1/12 |  |
| 1.3.2.5 | Create Software Design Description (SDD) document | Mon 10/8/12 | Fri 10/12/12 |  |
| **1.3.2.5** | **Release Report 4: Software Detailed Design** | **Fri 10/12/12** | **Fri 10/12/12** |  |
| **1.3.3** | **Implementation** |  | **Fri 7/20/12** |  |
| 1.3.3.1 | Create coding framework | Mon 10/8/12 | Tue 10/9/12 |  |
| 1.3.3.2 | GUI design | Wed 10/10/12 | Fri 10/12/12 |  |
| 1.3.3.3 | **Coding system on Hardware Device** | **Mon 10/15/12** | **Mon 11/5/12** |  |
| 1.3.3.3.1 | Generate code C language | Mon 10/15/12 | Wed 10/17/12 |  |
| 1.3.3.3.2 | Convert to assembly language | Wed 10/17/12 | Mon 10/22/12 |  |
| 1.3.3.3.3 | Embed to hardware device | Tue 10/23/12 | Fri 11/2/12 |  |
| 1.3.3.4 | Coding completed | Mon 11/5/12 | Mon 11/5/12 |  |
| 1.3.3.4 | **Coding system on Personal Computer (Web application)** | **Tue 11/6/12** | **Wed 11/21/12** |  |
| 1.3.3.6 | Coding completed | Thu 11/22/12 | Thu 11/22/12 |  |
| 1.3.3.7 | Create Software User Mannual (SUM) document | Mon 11/12/12 | Fri 11/23/12 |  |
| **1.3.4** | **Testing** | **Mon 11/26/12** | **Fri 11/30/12** |  |
| 1.3.4.1 | Write system test case | Mon 11/26/12 | Mon 11/26/12 |  |
| 1.3.4.2 | Execute system test | Tue 11/27/12 | Thu 11/29/12 |  |
| 1.3.4.3 | System test completed | Fri 11/30/12 | Fri 11/30/12 |  |
| 1.3.4.5 | Create Software Test Documentation (STD) document | Mon 11/26/12 | Fri 11/30/12 |  |
| **1.3.4.6** | **Release Report 5: Software Test Documentation** | **Fri 11/30/12** | **Fri 11/30/12** |  |
| **1.3.4.7** | **Release Report 6: Software User Manual** | **Fri 11/30/12** | **Fri 11/30/12** |  |
| 1.3.5 | **Deployment** | **Mon 12/3/12** | **Fri 12/7/12** |  |
| 1.3.5.1 | Input initial data | Mon 12/3/12 | Thu 12/6/12 | SMS Team |
| 1.3.5.2 | System deployed | Mon 12/3/12 | Mon 12/3/12 | SMS Team |
| 1.3.6 | **Closing** | **Mon 12/10/12** | **Fri 12/14/12** |  |
| 1.3.6.1 | Prepare final project presentation | Mon 12/10/12 | Thu 12/13/12 | SMS Team |
| 1.3.6.2 | Project presentation | Mon 12/10/12 | Mon 12/10/12 | SMS Team |
| 1.3.6.3 | Project completed | Mon 12/10/12 | Mon 12/10/12 | SMS Team |