**Project Initiation Document**

Ericsson: ePing utility

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**1.** **Project Vision and Objectives**

**1.1 Project Scope and Vision**

A ping utility is a basic tool for troubleshooting computer networks. These utilities are useful for network technicians in our sponsor's company to diagnose problems and test performance. Although similar utilities exist, our solution will be more flexible and streamline the process and minimize the amount of scripting effort by the technicians to perform simple tests and export data. We intend to have a working, extensible command-line prototype available by March, and a final version with several additions by the end of the semester. The project will be released as an open source program and provided to our sponsor for use and/or modification.

**1.2 Project Goals and Objectives**

|  |  |
| --- | --- |
| **#** | **Goal or Objective** |
| 1 | Make the system extensible, so Ericsson can make changes and update the software as needed |
| 2 | Cross-platform compatibility (platform independent language) |
| 3 | Learn more about network programing |
| 4 | Many options for how to send and receive pings, what to do with that data, more control |
| 5 | Build a prototype that demonstrates the application by 03/05/13 - in order to get early feedback from the sponsor |
| 6 | Have lots of fun working on the project |
| 7 | Learn a bit of Swedish |

**2. Project Planning**

**2.1 Project Lifecycle**

Our team will use an agile approach. Our team will gather requirements and create a high level development plan at the onset of the project and then implement the gathered requirements over four iterations, lining up with our class sprints. The team will follow a SCRUM-like approach with an emphasis on frequent meetings and collaboration.

**2.2 Project Setup**

|  |  |
| --- | --- |
| **#** | **Decision Description** |
| 1 | C++ as a programming language |
| 2 | Standards that must be followed include the default Capstone coding standard. |
| 3 | GitHub for version control, and project management |
| 4 | Google Docs for sharing files such as requirements and planning with the sponsor |
| 5 | Dropbox for sharing class assignment files amongst our team |
| 6 | Email for communication with the sponsor |

**2.3 Project Resources**

|  |  |  |
| --- | --- | --- |
| **Item** | **Quantity** | **Totals** |
| Personal Computers | 4 | (self-provided) |

**3. Project Tracking**

**3.1 Stakeholders**

|  |  |
| --- | --- |
| **Stakeholder** | **Role** |
| Oskar Myrberg | Sponsor |
| Dean Knudson | Instructor |
| Chris Berstler | Team member |
| Jeff Geiser | Team member |
| Shane Reetz | Team member |
| Sam Stutsman | Team member |
| Ericsson Technicians | End user |

**3.2 Communication Plan**

**Regularly Scheduled Meetings**

|  |  |  |
| --- | --- | --- |
| **Meeting Type** | **Frequency/Schedule** | **Who Attends** |
| Conference Call | Wednesday 2000 GMT | Project team and sponsor |
| Team Meeting | Thursdays 1600 GMT | Project team |
| Team Work Meeting | Fridays 1600 GMT | Project team |
| Short Meeting | Weekly in class | Project team |
| Sprint Planning Meeting | Start of each sprint | Project team and sponsor |
| Sprint Retrospective Meeting | End of each sprint | Project team |
| Sprint Review Meeting | End of each sprint | Project team and sponsor |

**Information To Be Shared Within Our Group**

|  |  |  |  |
| --- | --- | --- | --- |
| **Who?** | **What Information?** | **When?** | **How?** |
| Project team | Assignments, DD, SRS, | Constantly | Team meetings, dropbox |

**Information To Be Provided To Other Groups**

|  |  |  |  |
| --- | --- | --- | --- |
| **Who?** | **What Information?** | **When?** | **How?** |
| Sponsor | Final report | At completion of project | Req./Design docs., code, Power Point presentation, etc. |
| Sponsor | Goals, outcomes | At the end of each sprint | Customer demo, access to repository, meeting |
| Instructor | Weekly report | Weekly | Email and repo site access |
| Oskar Myrberg | Assignments needing approval | As necessary | Google Docs |

**Information Needed From Other Groups**

|  |  |  |  |
| --- | --- | --- | --- |
| **Who?** | **What Information?** | **When?** | **How?** |
| Sponsor and mentor | Requirement changes | ASAP | Conference call or meeting with sponsor and mentor. |

**3.3 Deliverables**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Deliverable** | **Delivery Time** | |
| **Interim** | **Final** |
| 1 | Prototype Code | Start of 3rd sprint |  |
| 2 | Build/Configuration Files |  | End |
| 3 | Regression Tests | After sprint |  |
| 4 | Project Documentation |  | End of each sprint |

**3.4 Project Metrics**

|  |  |  |
| --- | --- | --- |
| **Metric** | **Frequency** | **Location** |
| Estimated Effort (in hours) | Per task | MS Project Plan |
| Actual Effort (in hours) | At task completion | MS Project Plan |
| Maintenance Effort (in hours) | As occurring | MS Project Plan |
| Estimated Size (in LoC) | Per task requiring code | MS Project Plan |
| Actual Size (in LoC) | At completion of task requiring code | MS Project Plan |

**3.5 Assumptions**

|  |  |
| --- | --- |
| **#** | **Assumption** |
| A1 | Assume user knows basic command line commands |

**4. Document Review**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | <Name> | Date: | <Date> |
| Signature: | | | |

