**System Development**

**Overview**

The system development is performed using Agile methodology. Initial R&D activity should be applied to experiments tools and techniques. Later continuous R&D activity will run beside the system development activities.

**Development Plan**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Study Requirements |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Management Planning |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preparation |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Test Planning |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Implementation |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Testing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| System Testing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Final Release |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Team**

|  |  |  |
| --- | --- | --- |
| Team | Role | # |
| Management Team | Operation Manager | 1 |
| Project Manager | 1 |
| Business Team | Business Analyst | 2 |
| Marketing Members | 2 |
| Development Team | Team Leader | 1 |
| R&D Engineers | 2 |
| Front-End developers | 4 |
| Back-End developers | 4 |
| Quality Assurance Engineer | 1 |
| Testing Team | Team Leader | 1 |
| QC Member | 2 |

**Tools**

Student affairs will be developed using open source tools, languages and servers. This will decrease the cost especially for long term operation. While development only online tools will be used for management, tracking, testing and source control. This will increase the collaboration between team members even they are not located at the same place. Also, this will allow external teams and members to participate.

|  |  |
| --- | --- |
| Operation |  |
| Version Control | GitHub/Git |
| Tasks and Issues Tracking | GitHub/issues |
| Structured Database | MySQL |
| Programming Languages | PHP |
| Operating Systems | Linux(Ubuntu), Windows |
| Documents | Google Docs |
| Software SRS/SDA/SDD | Visio |