**SCOPE**

In Scope

1. Initiation and Planning

The initial stage of beginning Fire Severity Project, in this stage development team should prepare meeting documentation, including software flow chart, draft interface prototype, project approach, objectives and constrains. Android Application Development knowledge study is essential for development team members. Especially, most of team members are not familiar with the Android development environment and structure.

1. Software Development Design

After client Meeting with supervisor Peter Shaw and Andrew, development team are able to confirm the customer’s requirements and expectation of this project. Development group members have been assign jobs and responsibilities in this stage. SVN Version control should be installed in this project to establish change management. Project source code and documentations should be committed in the SVN as to record every versions developed by each team members. Android SDK Developer, SVN Plug-In and Junit Plug-In and Eclipse are required IDE and development environment in this project.

1. Software Component Development

Fire Severity Level Application consist of 5 significant components, Data storage configuration, Camera Function, GPS location capture, data sending (Email and SMS) and Android background batches component. Components are allocated into four main pages: “New User Registration”, “Welcome Page”, “Main Activity Page” and “Success Page”. In this stage, software component will be implementing by each of development team members according to their job responsibilities and skills.

1. System Testing and Validation

System Testing is important to ensure each of components can be implemented properly, each of programs and components should be merged and tested by developers. Developers should do unit testing before they commit their code on SVN server, also they are expected to write test cases and completed Unit-Testing when they complete a function or component. Test cases revision may be necessary depends on client’s satisfaction and requirement changes.

1. User Testing

User Testing is a process should be implemented by test scenarios user provided, including user interface testing and data accuracy validation. To ensure the project meets the requirements and user expectation. Changes and trouble shooting should also be included in this stage.

1. Project Verification and Release

It is the last stage of project development, all the source code and documentations should be submitted to supervisor and client as the end of the project.

1. Project Maintenance

In general, this stage will be required the most of time consuming in this project. However, due to time limit in this semester, this stage will be given 6 days for project operation and implementing verification in practical use. The further project maintenance will be occurred in next phase or new project schedule.

**Project Time Management**

The time limit for Fire Severity Level App project is 45 days (9 weeks), the duration is from 16th August 2013 to 18th October 2013. The kick-off meetings and project timeline are as below:

1. **Milestone List**

|  |  |  |
| --- | --- | --- |
| **Milestone Meeting** | | |
| **Title** | **Date** | **Purpose** |
| Requirement Confirmation Client Meeting | Tue 20-08-13 | Project requirements and project objectives confirmation. |
| Fire Severity Level Application Release Meeting | Mon 07-10-13 | Project release and submission. |

1. **Project Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **WBS** | **Task Name** | **Duration** | **Start** | **Finish** |
| **1** | **Initiation and Planning** | **3 days** | **Fri 16-08-13** | **Tue 20-08-13** |
| **1.1** | **Project preparation** | **1 day** | **Fri 16-08-13** | **Fri 16-08-13** |
| 1.1.1 | Android Application Development Study |  |  |  |
| 1.1.2 | Define Project Requirements |  |  |  |
| **1.2** | **Identify Project Statement** | **1 day** | **Fri 16-08-13** | **Mon 19-08-13** |
| 1.2.1 | Flow Chart Design |  |  |  |
| 1.2.2 | Draft Prototype |  |  |  |
| 1.2.3 | Establish Project Approach, Objective and Constrains |  |  |  |
| 1.2.4 | Define Software Development Environment |  |  |  |
| 1.3 | **Requirement Confirmation Client Meeting** | 0 days | Tue 20-08-13 | Tue 20-08-13 |
| **2** | **Software Development Design** | **9 days** | **Tue 20-08-13** | **Fri 30-08-13** |
| 2.1 | Assign Roles and Responsibilities | 0 days | Tue 20-08-13 | Tue 20-08-13 |
| 2.2 | SVN Version Control Installation | 2 days | Tue 20-08-13 | Wed 21-08-13 |
| **2.3** | **Android Development Environment Installation** | **2 days** | **Thu 22-08-13** | **Fri 23-08-13** |
| 2.3.1 | Eclipse Installation |  |  |  |
| 2.3.2 | Android Developer Manager |  |  |  |
| 2.3.3 | SVN Plug-In on Eclipse |  |  |  |
| 2.3.4 | Junit Plug-In on Eclipse |  |  |  |
| 2.4 | System Design and Architecture | 2 days | Mon 26-08-13 | Tue 27-08-13 |
| 2.5 | Unit Test Design (Test Case) | 3 days | Wed 28-08-13 | Fri 30-08-13 |
| **3** | **Software Component Development** | **14 days** | **Thu 29-08-13** | **Tue 17-09-13** |
| 3.1 | Data Storage Configuration | 5 days | Thu 29-08-13 | Wed 04-09-13 |
| **3.2** | **“Welcome page” Development** | **5 days** | **Wed 28-08-13** | **Wed 04-09-13** |
| 3.2.1 | “About Page” Design |  |  |  |
| 3.2.2 | “User Manual Page” Design |  |  |  |
| **3.3** | **“Main Activity Page” Development** | **8 days** | **Wed 28-08-13** | **Mon 09-09-13** |
| 3.3.1 | Camera Function |  |  |  |
| 3.3.2 | GPS Location Capture |  |  |  |
| 3.3.3 | Fire Severity Attribute Drop Down Box |  |  |  |
| 3.4 | Send Email component | 2 days | Tue 10-09-13 | Wed 11-09-13 |
| 3.5 | Send SMS component | 2 days | Tue 10-09-13 | Wed 11-09-13 |
| 3.6 | Android Batches Component (Data send when off-line) | 3 days | Thu 12-09-13 | Mon 16-09-13 |
| 3.7 | “Success Page” Components Design | 1 day | Tue 17-09-13 | Tue 17-09-13 |
| **4** | **System Testing and Validation** | **8 days** | **Wed 18-09-13** | **Fri 27-09-13** |
| 4.1 | Test Case Revision | 2 days | Wed 18-09-13 | Thu 19-09-13 |
| 4.2 | Unit-Testing from Eclipse | 3 days | Fri 20-09-13 | Tue 24-09-13 |
| 4.3 | Workflow Testing | 3 days | Wed 25-09-13 | Fri 27-09-13 |
| **5** | **User Testing** | **5 days** | **Mon 30-09-13** | **Fri 04-10-13** |
| 5.1 | User Interface Testing | 1 day | Mon 30-09-13 | Mon 30-09-13 |
| 5.2 | Data Accuracy Validation | 3 days | Tue 01-10-13 | Thu 03-10-13 |
| **6** | **Project Verification and Release** | **5 days** | **Fri 04-10-13** | **Thu 10-10-13** |
| 6.1 | Fire Severity Level Application Release | 0 days | Mon 07-10-13 | Mon 07-10-13 |
| 6.2 | Documentation Release | 3 days | Mon 07-10-13 | Wed 09-10-13 |
| 7 | **Project Maintenance** | 6 days | Fri 11-10-13 | Fri 18-10-13 |