



3.0 Methodology

The group has chosen the agile methodology. The group chose this because agile is very flexible where adaptive planning happens as well as continuous improvement.

3.1 Requirements Gathering

Conducted interviews with the department head Mr. Corpuz, Mr. Pelle and Mr. Laverne Olalia was done in order to gather the needed data.

3.1.1 Tools and Techniques Used

Interview

The group conducted multiple interviews with the department head Mr. Corpuz. The first interview was about knowing the nature of the organization, its process and the problems they are currently facing. The group was able to identify IS problems and was able to look into deeper in the process in the succeeding interviews.

Please Refer to Appendix L for the Transcript of Interview

3.1.2 Output

- Gantt Chart
- Fishbone Diagram
- Transcript of Interview

3.2 System Design

The design and interface of the system was done in this stage. The group created user-friendly with proper visuals to enhance user experience.

3.2.1 Tools and Techniques Used

3.2.1.1 Bootstrap

Bootstrap is an open source tool used for developing websites. It is very easy to use and has variety of templates for built-in interface design.

3.2.1.1 Android Studio

Android Studio is the IDE using for the creation mobile application.

3.2.2 Output

- Designed webpage
- Mobile Interface

3.3 System Coding

The group used Java as the programming language and MySQL for making the system.

3.1. Tools and Techniques Used

**Java**

The group has chosen java because it is the most used language for the group. It is also very compatible for mobile and web development.

Bootstrap

The group used Bootstrap in order to create the user interface. Bootstrap contains a variety of templates which was very user friendly.

MySQL

The group used MySQL for the creation for the database.

HighCharts

The group chose HighCharts as the tool for generating graphs to present processed data. HighCharts contains a wide variety of charts with good aesthetics and so it is practical to use it for the charts.