**Systems analysis**

**Introduction**

This section is about a report on the proposed information security system for reporting cyber crimes and sensitizing people on how to avoid them. The main stakeholders are the women and children from around Wandegeya in Kampala. From the data we collected from our sample population of women and children in and around Wandegeya which is found in kampala we were met with the question of how the reports made to the system would be relayed to the concerned authorities we are going to partner with during this project. As well as the privacy policy which shall be put in place when the system is in operation. From this input we are going to use the agile development life cycle which will give us the liberty to make changes at any point necessary.

**System requirements**

From the data we gathered through interviews and questionnares we decided that the users should be able to interface with a highly interactive system which would be able engage members via a blog where access to it is subject to having creating an account. Also members part of our community should be able to receive emails showing news about any security updates and topics to keep people safe from cyber crimes. The system will also work hand in hand with the authorities by integrating our system with theirs so that reports came in in real time inorder for them to investigate and apprehend suspects within their jurisdiction. System documentation is available inorder to educate users on how the system should be used on top of what it offers to the user.

Despite designing our system to work hand in hand with the authorities, users should not expect to have direct contact with authorities since we are already doing that job for them.

**Systems Development approach**

The proposed system development for the system will be created using an agile development approach. Agile development methodology provides opportunities to assess the direction of a project throughout the development lifecycle. This is achieved through regular candences of work, known as sprints or iterations, at the end of which we must present a potentially shipable product increment. In an agile paradigm, every aspect of development-requirements, design, etc is continually revisited throughout the lifecycle. Every time we finish a cycle, we stop and test with our client then get feedback so we can make changes if needed.

**Systems design**

Functional Decomposition Diagram (FDD)



This diagram encompasses different pieces of functionality that the complete system should provide. Each function is broken down further into smaller processes.

**Functional Decomposition Diagram Description**

The following is a description of each major function.

**1. Manage Users**

**1.1 Users register for account**

Only certain memebers are allowed to access certain resources. Users who intend to report cyber crimes must first create an account on the site before they can make a report and also join the blog from where they can chat with others members.

**1.2 Login and authentication**

These mechanisims are put in place in order for users to access only what they are authorized to plus to avoid people from spamming the reporting page.

**1.3 Engage in blog**

Here users who have created accounts can be able to meet other members and share experiences along the lines of cyber security.

**2. Manage Reports**

**2.1 Make a report**

Upon creating an account with us one can make a genuine report on our reporting page by just filling in the required fields.

**2.2 Send the report to the authorities**

As mentioned before we work in tandem with the authorities and the reports made to our site are relayed to the authorities in real time.

**3. Manage Web content**

**3.1 Upload material**

Here the admins are responsible for managing the site and posting things of relevance to cyber security

**3.2 Update Website content**

Admins keep the site up to date with news about cyber security and the other users keep the blog site interactive in the community of members