**CRITERIA A: PLANNING**

**SUMMARY OF PROBLEM:**

NOTE 1: A1:10 means appendix 1 A1 line 10 and likewise. Also 1:A1:10,12 means appendix 1 A1 line 10 and 12

My client- School Infirmary Doctor - is facing problems like managing documents of Annual medical checkup, Urine tests, OPDs and Medicine records. Primarily the problem is regarding retrieval of information from the documents in a fast and reliable way. For example, to make medicine records they need to find the name of the medicine they are going to count the total of , and then find all the places in the registers they occur in and count(1:A1). Also, to search for the name of patient when needed to, they go through the register and one by one match the name of the patient they are searching for and matching it with the entries in the register.

All of these problems can be solved by use of a software. My client had tried a software solution before from a professional developer and even paid for it (1:A1:22), but she found it very hard to use as it had “too many unnecessary options”(1:A1:24).

My client and I decided that given the time constrains, I will only make a solution for their daily needs like medicine records, urine tests and OPDs. The annual medical checkups will not be a part of my solution (1:A2:10).

**RATIONALE FOR SOLUTION:**

I have chosen to make a web app. The reason for this is that PHP and SQL can be used to manage database. There are libraries for generating PDFs (like TCPDF) of database tables. It is easy to create forms in PHP. For the front-end CSS can be user and CSS are easy to integrate with PHP moreover CSS can be used to create a dynamic user interface and make the web app intuitive and “easy to use”. The web app can be hosted on school’s server hence the storage needs, and backups would be taken care of. The web app can later be extended to accommodate multiple logins and also solve the annual medical checkup part which would be difficult if I to do if I make an app.

**SUCCESS CRITERIA:**

* **LOG IN AND LOG OUT**: The user should be able to log in and log out. Any other invalid user should not be able to log in.
* **CHANGE PASSWORD AND USERNAME:** The user should be able to change username and password.
* **GENERATE PDF:** User should be able to generate PDF of tables of Urine test, OPD, medicine reports and search results. (1:A2:13).
* **SEARCH:** The user will be able to search OPD register and Urine Test Register based on parameters like Name, grade, gender, sickness, medicine given and range of date of records and in any combination of the parameters. (1:A2:12).
* **AUTOMATIC DELETION**: Records older than 2 years will automatically be deleted. (1:A2:17,18).
* **EDIT AND DELETE:** The user should be able to edit and delete entries from urine test table and OPD table. The user should also be able to perform those operations on the results gotten after search.
* **VIEW TABLES:** The user should be able to view Urine test and OPD tables.
* **MEDICINE REPORTS:** The user will be able to view the medicine name and how many of them were given to patients on any given date. By default, it should show for the current date. (1:A2:12).
* **FILL FORMS:** The user should be able to fill the forms for Urine test and save them to the database.
* **DROPBOX:** The sickness and medicine field in OPD form should have a drop box that contain common medicines and sickness to allow for quick filling of forms. (1:A2:12).
* **POPUP MESSAGES:** The user should get appropriate pop ups based on operation the user is performing. For example, when deleting, a popup message like, “Are you sure you want to delete?” should come up.
* **EASY TO USE:** The website should be easy to use for the client.