StAR-2 project

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I. Objective

1) To update the progress of the Star-2 project.

II. Sana mobile apps

In this Progress Report 35, another updates on StAR-2 project will be presented. As written in Report 34, the debugging due to error of 'concept matching query does not exist' when uploading procedures to openmrs-sana-arc.uct.ac.za server is still not completed. Timothy Carr (Technical Specialist, Cape Town) has been requested to run the debugging command and send the information to Eric Winkler (MIT).

This week, I have worked on the data validation for Sana mobile procedures. Before working with the coding in Android Studio 1.5.1, we have to ensure that we pull the latest version of Star2.0SanaMobile in SourceTree. In every element (question) of a procedure (.xml file), we specify the element "Id". List of Ids which element that will go through data validation are listed in "specialElements" of our current ProcedurePage.java. For example, "patientWeight" is the Id of an element that we are going to validate its data. In PatientValidator, we will set the condition of the accepted data. If the answer or the data is out of the range that we set, the system will throw a validation error and ask the observer to reenter the correct data. In this project, this data validation is very important since all the data that we enter will resulting in a different SMS-message. So far, I have done the data validation for systolic, diastolic and heart rate. More validation will be added in the future, depending on the content of our procedures. The procedure will then be uploaded to openmrs-sana-arc.uct.ac.za. However, as mention at the first line of this session, the uploading is still not successful.

III. OpenMRS module

In order to test our new module, we are currently VPN into Cape Town network and use openmrs001.uct.ac.za/openmrs. The coding for OpenMRS is done using Eclipse. As for the compiler, I am using compiler compliance level 1.7 and jre1.7.0. After compiling the module using ANT, .omod file will be created in /dist folder. This file is then added/upgraded to OpenMRS via 'manage module'. Then, the module will appear at the administration page under Star2.0. For this module development, I have started by creating a new nazrulForm.jsp file. It uses HTML coding. Once a "submit" button is pressed on this page, the background processing the performed by newly created NazrulController class. One of the examples being done here is to send email to the address that being input when submit button is pressed. The email origin is set at 'constants.java'. Currently we are using the default where the email will be sent from reports@starstudy.org. Next week, I will try developing a module that send all the list of patients involved when the button is pressed.

IV. Conclusion

For the past two weeks, some experiments for generating the new module in OpenMRS and Sana Mobile procedures have been done. Hopefully I could understand and solve most engineering/software related problems prior to the clinical trial in South Africa and Malawi in September.