Project Assignment (Part III)

Consider the database created and populated in Part II.

Using PHP and HTML, develop a simple Web-based application to perform the following tasks:

1. A patient calls the healthcare center to schedule an appointment. The first task is to check if the patient already exists in the database. Create a set of Web pages to search for patients by name: given a (portion of a) patient name, display the records of all patients with matching names. On the displayed result, include the possibility of registering a new patient if no matching names are found.

2. Create a set of Web pages to support the interaction of changing the devices currently attached to a patient. Clicking over a patient name in the results page of the interaction above, should lead to another page listing all the devices worn by the patient over time. The devices currently worn by the patient should come one top, highlighted. Next to a currently worn device there is button to lead to another page where s/he can "replace" that device by one of the devices of the same manufacturer not presently worn by a patient (the entries and *start/end* times of the *Wears* table must be adjusted to reflect that replacement).

3. Create a set of Web pages to support the interaction of, upon creating new study, also creating a new series. The base_url should be automatically assigned (not input by the user), as a string of the form http://<your-homepage>/series/<series_id>. Keep in mind that the creation of the study and series should be a **single transaction**. If the creation of the series fails, then the registration of the study must be cancelled. A message with text "study created"/"study not created", depending on the success, should be included in the result page.

4. Create a set of Web pages to add a region to an element of a series by a Doctor. When a just inserted region does not overlap with any of the regions of an element of the last study of the patient (if there was one) the result page after completing the insertion must display a message alerting for new clinical evidence for the patient.

(You don't need to code all the functionalities of a full application, only the ones asked above. If some other operation is needed, you could perform it manually through the SQL prompt).

Submission Notes

The deadline for submission is Wednesday, November 29 2017 23:59 (Fénix time). You should submit it sometime before to prevent any hiccups.

The project report, with the PHP code and a text describing your implementation decisions, should be submitted to Fénix as a single PDF file. Please check that the file is readable with a standard program, such as Adobe Reader.

The document cover page should mention the names, student numbers, and group number of its authors.

The report should have four separate sections, one for each of the tasks described above. Please include the PHP/HTML code together with a screenshot of each Web page.