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Antenatal

Progress Report

**Iteration 1:**

When we started this project, iteration one began with the complex issue of how we would structure our software. We decided the best option would be to start with the basic outline provided for us for the first project. The first task/challenge we faced was creating a Gui using Java Swing. None of us had worked with Swing but we all rose to the challenge. By the end of iteration one we had successfully created a proof of concept. Our Gui contained a basic panel with the person information at the top and a central panel with the input form that a CHO would use. We also had began the process of implementing the serializable database as a placeholder for testing. When we had finished iteration one we had all of the foundation set for the rest of the iterations.

Completed:

* Initial visit Gui element
* Consulting Register placeholder for person information
* Basic structure of our software
* Initial database/DAO implementation

**Iteration 2:**

In iteration two, our major goals were to add subsequent visit input to the gui, complete database integration, and allow for all of it to be retrieved from the database. We were able to set up a basic subsequent visits panel that was placed below the initial visit form. We completed database integration and were able to fully send and retrieve all data from the initial visit form. Though the concept worked we still had some flaws with the subsequent visits. The subvisits as we called them, were not directly connected to the initial visit gui so when you switched tabs all of the subvisits for both would be shown. These sort of bugs were put on the task list for iteration 3.

Completed:

* Subsequent visits panel added
* The ability to add and retrieve both initial and subsequent visits from the database.

**Iteration 3:**

In iteration 3 we focused on both input validation, and refactoring our code to prepare for database integration. We also finished the functionality of the subvisits so that they would be retrieved each time the tabs changed. One important change we made was changing our main bulky controller into multiple controllers that more precisely worked for specific jobs. While working on input validation we found that spinner boxes for input instead of text fields took care of almost all of our validation. We also looked at what it would take to integrate with the consulting register’s code and created a prototype with their current code.

Completed:

* Input validation
* Subsequent visit panel now will update to each pregnancy record when tabs are changed or previous visits are retrieved.
* A prototype of the consulting register integration

**Iteration 4:**

In iteration 4 we had big plans and were able to deliver. Our main goal was database integration with postgresQL. This was a big step for our software because we had to adjust our interfaces a bit and make new DAOs. We started by creating the pregnancy record table and the subsequent visits record table on the database. This then allowed us to connect to those tables through JDBC. There was a steep learning curve which was definitely one of the biggest identified risks we’ve had over the course of the project. While completing this we did a lot of refactoring, a lot dealt with naming conventions, that helped with the cohesion of our program.

Completed:

* PostgresQL integration completed
* Tables inserted into the database to query

**Iteration 5:**

In iteration 5 we decided that since we fully implemented postgresQL, we would make our program into a web app. This was a big step for the program because only a few of us had experience making a web application. This complete change in venue forced us to completely recreate our Gui elements. Our last functional requirement we needed to finish was the monthly reporting. This added complications as it needed to be completed before the final product was deployed onto the server.

Completed:

* Deployment of our program on the Tomcat Server
* Monthly Midwife Reporting

The major strengths and weaknesses of this iteration are in the work we got done for the Web-App. Our Web-App is not a completely polished, beautiful gui, but it is a great proof of concept. If we had more time to work on the Web-App appearance and functionality it would be a much better example of a final project. The key challenges with the current setup is that we haven’t been able to fully connect the monthly reporting into the Web-App. This should be completed in the final commit but the current code as I type does not have it all integrated.