4ME302 - Foundations of Computational Media - HT16 – Second Assignment report

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Abstract: This document is a report of the web project I have created in which the user authenticates his identity through special mechanisms in order to view a certain amount of information. The information that are available inside the web page are related to Parkinson Disease and the techniques that are used by the scientific community in order to cure the people that suffer from it.

Introduction

This project is the continuation of the first assignment that were given for the course 'Foundations of Computational Data'. In addition to the first assignment, in this project we actually implement part of the application that were described in the first assignment with the use of UML Diagrams. The authentication and authorization is implemented with the use of the three major web platforms (Facebook, Google and Twitter).

The web project can be used by three types of users: patients, physicians and researchers. The patients can log into the system with their Facebook account, physicians can log into the system with their Google account and finally researchers can log into the system with their Twitter account.

The web project can be found in the following URL: http://pdtreat.x10host.com/

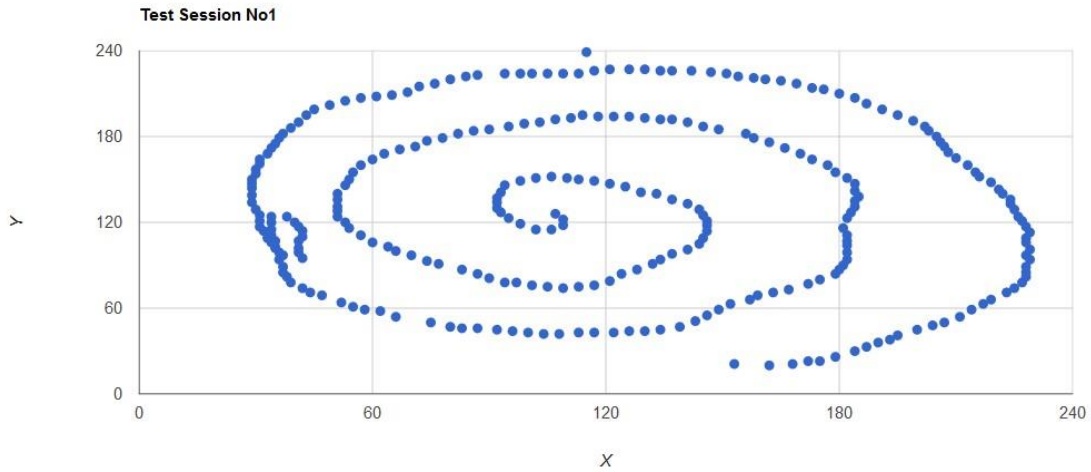
Methodology

In the early stages of the implementation, I ran the project on my localhost with the use of XAMPP. For the making of the login mechanisms, I used mostly javascript (Facebook, Google) but also PHP as well (Twitter). The same thing applies also for the implementation of the functions of the web app. For the styling of the web project, CSS and HTML were the main means of formatting. My aim was to keep the structure of the project as simple as possible. Thus, I made great efforts to create the least amount of web files in a limited number of folders.

The second phase of implementation was the finding of a webhost in order to upload my project. I encountered some difficulties to find the appropriate webhost for my case, since not all webhost support PHP versions over 5.2. Specifically, initially I used the webhost 000webhost.com but since it could not support PHP 5.2+ I used another one which is the x10hosting.com .

Certain files and web addresses were used in order to visualize the data of the patients. I used a .CSV file to visualize the results of the patient into an interactive graph chart. Also, for the creation of the activity diagrams I used XML web files that are available online.

Below, you can see the graph that presents the results of the patients.



CONCLUSION

This second assignment is the first step for the creation of a complete web application which can be used by the scientific community in order to treat Parkinson Disease. This project allowed me to expand my knowledge in the field of programming but in addition I learned more thing regarding the authentication and authorization of users. Of course, much more are needed to be made for the implementation of the final project. For the future, I intend to add more functions, in order to facilitate the use of the application and offer more capabilities to the user.