

## **Memo**

To: Dr Hasan Jamil

From: Ezequiel Romero and Adam Odell

Subject: Patient Health Portal Design Draft

Date: 13 October 2020

### **Introduction**

This memo is in response to your request for this team's design choices and approach to the Patient Health Portal project.

### **Platform**

We will use the server provided for our project without modification to its operating system or software stack. We will use the installed LAMP stack as configured. We will use SQL directly on the MySQL server through PhpMyAdmin to create the database schema and insert sample records into the database. We will use PHP to program a web interface to the database. Linux will run Apache, which calls on PHP to generate a webpage to server; PHP in turn queries the MySQL server before generating a webpage.

### **Tools**

We will use FileZilla to edit PHP files on the database and perform regular backups. We will use local text editors which will perform basic syntax analysis on PHP and SQL code before we upload it to the server.

### **Knowledge Gap**

Adam Odell has experience with SQL and web servers. This team does not have experience with PHP. We will repurpose code provided by Joel Oduro-Afriyie and make additions as necessary to construct the web interface. We will use online tutorials when we have a specific problem with a particular aspect of PHP. We will also consult Mr. Oduro-Afriyie when we have an issue we cannot resolve on our own in a reasonable amount of time.

### **Timeline**

We will endeavor to stick to the following schedule:

- By October 23<sup>rd</sup> we will be acquainted with PHP and will have a working sandbox
- By October 30<sup>th</sup> we will have populated the server with our schema
- By November 6<sup>th</sup> we will have sample data on our server that passes tests
- By November 13<sup>th</sup> we will have 3 simple test interfaces integrated with the SQL server
- By November 20<sup>th</sup> we will have all our web interfaces integrated
- In the week of November 27<sup>th</sup>, we will perform tests of the web interfaces as well as all tests collected thus far and fix bugs as needed