

# NeuroResearch Centers Weekly Report #1

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**Starting Week:** February 8, 2021

**Project Description:** To convert the HDB (Human DataBase) program from using MS Access to being web-based using C# ASP.NET for the front end and Azure for the backend.

**Project Scope:** To keep track of patient progress while using the NeuroResearch Centers weight loss protocol. Doing so will track who is most likely to succeed, who need additional coaching, and who is likely to drop out of the program.

**Objectives:** Create wireframe website designs, then build a 3NF model for the database. Build the SQL tables and join them as the model is designed. With this, I will create the SQL connections from my local computer to Azure. After that, reverse-engineer macros and expressions. From the reverse engineering source, build functions, methods, and SQL Scripts. While creating functions, methods, and SQL scripts, build out individual web pages and forms based on a master page. After the general web pages are built, create account and security roles so clinics can only access their patients' information, and information is disseminated based on role. Once that is completed, build utility tools such as a BMI calculator and a metropolitan table. After completing the website, deploy a server to host the web pages that links to MS Azure for the data.

## Timeline (With Objective Dates)

- February 10, 2021 – Close and Review Quotes
- February 12, 2021 – Choose Quote for Project
- February 15, 2021 – Project start date, starting with web design and database modeling 3NF standards.
- February 22, 2021 – Web design and database modeling completed. Start on reverse-engineering the HDB Database of macros and expressions.

- March 15, 2021 – Complete reverse-engineering.  
Start building master page, data forms, and graphs.  
Build tables, secure connection, and set up Azure.
- March 22, 2021 – Have finished master page, forms, and graphs. Start working on Security roles and permissions, connections, and actions.
- March 29, 2021 – Have finished security roles, permissions, connections, and actions. Start sectioning the website based on security and roles.
- April 12, 2021 – Start building utility tools such as BMI calculator and metropolitan tables.
- April 19, 2021 – Website building is complete. Start testing for bugs, make sure documentation is in place and finished.
- April 26, 2021 – Get the server specification to the PaaS host to start prepping the server build.

- May 3, 2021 – Finalize testing, deploy PaaS server, setup firewalls, connections, configure IIS, and secure the server's connection to Azure.
- May 17, 2021 – Project Completed

## **Task List**

- Prep with diagrams and models
- Reverse-engineer current database project
- Build website with similar formulas
- Place security via roles and accounts
- Build utility programs to help patient care
- Test the security of the website
- Deploy website on PaaS server

## **Budget**

- 267-man hours for the project at \$27 an hour which totals \$7,209.
- Cost for PaaS server when deployed is \$750 a month

- Cost for using Adobe Photoshop and Adobe Stock ~\$60 a month for 3 months for a total of ~\$180
- Starting expense of MS Azure Basic Plan is \$5 a month (Up to 2 GB of storage). This can expand as the data grows.
- Going over plans and setting up project goals (5-man hours \$135)

## **Expenses**

Total expenses: \$135

Going over plans and project goals.

## **Sources of information**

Microsoft Azure Pricing: <https://azure.microsoft.com/en-us/pricing/>

PaaS Service: <https://aptum.com/>

Adobe Create Cloud: <https://www.adobe.com/creativecloud/plans.html>

## **Next Step**

Create wireframes and 3NF database modeling

## **Historical Progression**

Project is on track so far with the RFPs, bidding, quotes, and research.