

Request for Proposal

For NeuroResearch Centers

February 2021

Request for Proposal for planning,
implementing, and building a new C#
ASP.NET website based on the HDB weight
loss MS Access database.

Contact Person and Proposal Prepared by

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Outline

NeuroResearch Centers (NRC) is a medical research company that focuses on many applications for amino acids. NRC wants to update their local Weight Loss MS Access database to an online website to be used by any clinic interested in their services. The project will make this a C# ASP.NET site while using Microsoft Azure for back-end needs.

Skills and Knowledge Requirements

The skills needed for this project is being able to code with SQL, MS Access, HTML, CSS, Bootstrap, JavaScript, jQuery, and C# ASP.NET. To add, how the company runs on a day to day basis is needed to get the correct UX (User Experience) for the website layout and design. The UX perspective needs to consider the

secretary, medical transcriptionist, nurse, and doctor account access and views.

Milestones (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 – Finish server setup, testing, and create tutorial videos on using features of the website.
- May 24, 2021 – Projected date of completion

Resource Management

A computer with 16 GB of RAM, any mid-level or higher processor from the last five years, and has at least 50 GB of storage available for the project. The desktop software needed is Visual Studio 2019, Adobe Photoshop, Camtasia, and an FTP client. The desktop computer will be the primary source for the overhaul for building the web site. Its availability needs to be 100% for the programmer of the project.

The starting server will need 64 GB of RAM, a 12-core processor with at least 3.1 GHz per core, 500 GB of total available storage based on RAID 10 with SSD hard drives, and Windows Server 2019 Standard Edition. The server deployment is to begin Monday, April 26, 2021.

The Azure back-end needs to be available for the project starting Monday, March 15, 2021.

Possible Challenges

1. The reverse-engineering may take longer than three weeks. There are over 150+ macros and expressions to sort through.

One solution is to talk to the creator of the HDB database for clarity. Another is to put in extra hours to try to keep the project on schedule.

2. The company might not be ready to deploy the server and use its services immediately.

Get the website ready and follow up regularly until the service is prepared to go live with the budget.

A Measure of Success or Failure

Complete success would be a website that is functioning with no bugs or errors. Next is to have the process streamlined so non-IT NRC employees can create new accounts for a clinic. Also, have it, so an NRC IT

Admin is only capable of changing critical information. Have general security setup so clinics can only access their patient information and have different levels of roles for access, modifying, and approving records within each clinic. To add, create the user experience to be intuitive and straightforward to follow. Have tutorial videos built into the Help section of the site so anyone can be self-taught on how to use the system.

Any failure is when one of the goals for success isn't accomplished. Not meeting the projected deadline in this project is not considered a failure since it is not time-sensitive. The goal is quality over quantity.

Contact Information

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