CS Capstone Design

Technical Demo Grading Sheet (100 pts)

TEAM: <u>Rehab Remote</u>

Overview: The main purpose of the "Technical Demos" is to very clearly communicate the extent to which the team has identified key challenges in the project, and has proven solutions to those challenges. Grading is based on how complete/accurate the list of challenges is, , and how convincingly and completely the given demos cover the given challenges.

This template is fleshed out by the team, approved by CS mentor, and brought to demo as a grading sheet.

Risky technical challenges

Based on our requirements acquisition work and current understanding of the problem and envisioned solution, the following are the key technical challenges that we will need to overcome in implementing our solution:

C1: Extracting and Organizing Data: Extracting data from CSV (comma-separated values) files and organizing the data to be ready for data visualization.

C2: User Account Authentication: Authorized users must sign in with their username and password to access patient data.

C3: Data Visualization Platform: Data must be able to be visualized in various charts and graphs on the Wix platform.

C4: Downloadable Raw Data: Ability to download raw data into a CSV file and download the graphs/charts into a PDF file.

Challenges covered by demos:

In this section, we outline the demonstrations we have prepared, and exactly which of the challenge(s) each one of them proves a solution to.

Demonstration 1: Python CSV Extraction and Organization

<u>Challenges addressed:</u> C1: Extracting and Organizing Data

<u>Flight Plan:</u> Step by step overview of demo

1. Run a Python script that extracts and organizes CSV data
2. Open extracted file of CSV data for proof of extraction
3. Open extracted file of organized data for proof of organization (through functions)

<u>Evaluation:</u>

✔ Convincingly demoed each of the listed challenges?

✔ Other evaluative comments:

Demonstration 2: Wix Account Creation and Sign in

Challenges addressed: User Account Authentication

Flight Plan: Step by step overview of demo

1. Teach about the Wix profile management system
2. Implementation on default website
3. Show sign in process and user settings

Evaluation:

✔ Convincingly demoed each of the listed challenges?

✔ Other evaluative comments:

Demonstration 3: Displaying Data in Graphs in Wix

Challenges addressed: Data Visualization Platform

Flight Plan: Step by step overview of demo

1. Teach of Wix visualization techniques
2. Display google chart visualization
3. Display embedding of google sheet in any form

Evaluation:

✔ Convincingly demoed each of the listed challenges?

✔ Other evaluative comments:

Demonstration 4: Downloading CSV and PDF Files in Wix

Challenges addressed: Downloadable Raw Data

Flight Plan: Step by step overview of demo

1. Show embedded buttons to download raw data (CSV) and graph printout (PDF)
2. Click on both buttons to show the download process
3. Open and view the downloaded files

Evaluation:

✔ Convincingly demoed each of the listed challenges?

✔ Other evaluative comments:

Other challenges recognized by not addressed by demo:

If there were challenges you listed earlier that were *not* covered by a demo, list here. This will hopefully be a short list…but better to be clear about where you are. If you have items here, you could list (if applicable) any pending plans to reduce these risks.