

CS Capstone Design

Final Project Demo Grading Sheet (50 pts)

	50
A: +90%	45
B: +80%	40
C: +70%	35
D: +60%	30
F: <50%	25

TEAM: Rehab Remote

Overview: The main purpose of the “Technical Demos” is to very clearly explore the extent to which the team has implemented the key functional and performance requirements for their project. Grading is based on two factors:

- **Completeness:** Have all of the key requirements been implemented. To what extent does the product have all of the functionalities and performance that was promised.
- **Quality:** Just having basic functionality is the bare minimum. What is the quality of the implementation? Is the resulting product aesthetically pleasing, easy to use, and a pleasure to work with; to what extent is it “ready for market”?

This template is fleshed out by the team, **reviewed and approved by CS mentor beforehand**, and then brought to demo in hardcopy for the mentor to use as a grading sheet.

Requirements Review

Based on our requirements acquisition work and evolution during implementation, the following are the key technical requirements driving of our product:

R1: User Account System. The user account systems allow users to sign up/log in and see data that is specific to their account.

Specific implemented functionalities that satisfy this requirement:

- Username and password database
- Connection to user’s data

R2: Data Visualization. The Biomotum exoskeleton data is visualized through line graphs in various ways.

Specific implemented functionalities that satisfy this requirement:

- Global data summary graph
- Exoskeleton summary graph
- User summary graph
- Session steps and calibration graphs

R3: Hierarchy of Data. The hierarchy of data is displayed through three dropdowns that each rely on the previous dropdown option chosen. It allows for the user to choose an exoskeleton, a user correlated to the exoskeleton, and a trial correlated to the user and exoskeleton.

Specific implemented functionalities that satisfy this requirement:

- Hierarchy dropdown

R4: Downloadable Data. The ability to download the CSV files correlated to each trial.

Specific implemented functionalities that satisfy this requirement:

- A download button when a trial is chosen

R5: Exoskeleton Assignment. The ability for the admin to assign exoskeletons to each account based on what they need access to.

Specific implemented functionalities that satisfy this requirement:

- Exoskeleton assignment page in the Admin Dashboard

Demonstration Sequences:

This section outlines the demonstration sequences prepared to prove the above functionalities. Each sequence is a coherent walk-through of some piece/area of the product, designed to highlight implementation of specific requirements/functionalities outlined in the last section.

Demonstration Sequence 1: Account creation, acceptance, and login

Requirements demonstrated: R1

Flight Plan for this demo sequence: Step by step plan of things to do/demo

1. Create an account
2. Accept the account creation
3. Login to the account

Evaluation (filled in real-time by mentor):

- ✓ Convincingly demo'd each of targeted requirements?

- ✓ Quality, aesthetics and other evaluative comments:

Demonstration Sequence 2: Exoskeleton assignment

Requirements demonstrated: R5

Flight Plan for this demo sequence: Step by step plan of things to do/demo

4. Go to admin dashboard
5. Go to 'Assign Exos'
6. Assign 5 exos to the new account and update

7. Unassign 2 exos and update

Evaluation (filled in real-time by mentor):

- ✓ Convincingly demo'd each of targeted requirements?

- ✓ Quality, aesthetics and other evaluative comments:

Demonstration Sequence 3: Choose an exo/user/and trial

Requirements demonstrated: R3 & R2

Flight Plan for this demo sequence: Step by step plan of things to do/demo

8. Go to the 'patients' page
9. Choose an exoskeleton, user, and trial, and look at graphs

Evaluation (filled in real-time by mentor):

- ✓ Convincingly demo'd each of targeted requirements?

- ✓ Quality, aesthetics and other evaluative comments:

Demonstration Sequence 4: Downloadable data

Requirements demonstrated: R4

Flight Plan for this demo sequence: Step by step plan of things to do/demo

10. Download the CSV file of the trial chosen
11. Open the CSV file

Evaluation (filled in real-time by mentor):

- ✓ Convincingly demo'd each of targeted requirements?

- ✓ Quality, aesthetics and other evaluative comments:

Other challenges recognized by not addressed by demo:

If there were requirements that 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 what is done and not. If there are items here, one could provide explanation of why they weren't done.