

CS Capstone Design

Technical Demo Grading Sheet (100 pts)

TEAM: HomeAide

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: Database. The key tech challenges are to be able to add entries to and view entries in the database. The demo needs to show that an AT device is added to the database and you can view it in the database.

C2: Website. The key tech challenges are to be able to manage admin users for the website and to be the frontend for the database. The demo needs to show that you can use the website to add a new admin user, and you can view the database and add to it.

C3: Flutter. The key tech challenge here is to query the database using a mobile application. The demo needs to show that the app can request an entry from the database and display it in the app.

C4: Cloud server. The key tech challenge is to have a cloud server that hosts the database and website. The demo needs to show that the website and database are operating on the cloud server and not on a local machine.

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: Add a new user to the website

Challenges addressed: C2, C4

Flight Plan: Step by step overview of demo

1. Visit the website frontend on the cloud server.
2. Log in as an administrator.
3. Go to the user management page.
4. Add a new user account.
5. Set the permissions on the new user account.
6. New user logs in with their temporary password.
7. Log out.
8. Show that the user management is not accessible when logged out.

Evaluation:

- ✓ Website is located on a cloud server, not on a local machine.
- ✓ A new account is made with admin privileges.
- ✓ Log in with the new account is successful.
- ✓ User management is only available when logged in as an administrator.
- ✓ Other evaluative comments:

Demonstration 2: Add an AT device to the database

Challenges addressed: C1, C2, C4

Flight Plan: Step by step overview of demo

1. Visit the website frontend on the cloud server.
2. Log in as an administrator.
3. Go to the inventory management page.
4. Click the control to add a new AT device.
5. Enter in the new AT device information.
6. Save the entry.
7. View the new device in the inventory management page.
8. Log out.
9. Show that the inventory management page is not accessible when logged out.

Evaluation:

- ✓ Website is located on a cloud server and not on a local machine.
- ✓ The new AT device entered can be viewed in the inventory management page.
- ✓ Inventory management page is only accessible by logged in users.
- ✓ Other evaluative comments:

Demonstration 3: Query for AT devices from the app

Challenges addressed: C1, C3, C4

Flight Plan: Step by step overview of demo

1. Open the app in a mobile phone emulator.
2. App displays a welcome screen.
3. Click on a button to go to a specific location in the house.
4. App shows a list of AT products for that location.

Evaluation:

- ✓ App loads in an emulator successfully.
- ✓ App loads a welcome screen.
- ✓ App displays multiple locations in a house.
- ✓ App shows the result of a database query for that location in the house.
- ✓ 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.

N/A