

TEAM: Forest Frames

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: Transfer app data to server. The ability to send data from the app to the server is required to start verifying said data. If the app is unable to send data then we cannot verify it or send it elsewhere. Showing that an app is able to send data to our server would resolve this challenge.

C2: Perform verification test on data. Being able to verify that the data is from where the user claims to be is vital to prevent malicious actors and provide other organizations with accurate data. Showing that a verification process can be performed on a given piece of data would resolve this challenge.

C3: Transfer test result from server to app. The user has to be able to receive the verification result of their uploaded data via their app from the server. Showing that the app is able to successfully receive info from the server would resolve this challenge.

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: Send image from app to server

Challenges addressed: **Transfer app data to server**

Flight Plan: Step by step overview of demo

1. Click button on app UI to upload data
2. Show that server received said data

Evaluation:

- ✓ Convincingly demo'd each of listed challenges?
- ✓ Other evaluative comments:

Demonstration 2: Verification test on image

Challenges addressed: **Perform verification test on data**

Flight Plan: Step by step overview of demo

1. Server shows which data it will be verifying
2. Server displays the type of verification it will be doing
3. Server indicates the start of verification process
4. Server indicates the end of verification process
5. Server displays the verification result

Evaluation:

✓ Convincingly demo'd each of listed challenges?

✓ Other evaluative comments:

Demonstration 3: Receive verification result on app

Challenges addressed: **Transfer test result from server to app**

Flight Plan: Step by step overview of demo

1. Server displays the app recipient info along with result being sent
2. Server indicates that the result info was sent
3. App displays the given verification result

Evaluation:

✓ Convincingly demo'd each of listed challenges?

✓ Other evaluative comments:

Other challenges recognized but 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.

Non-addressed challenges listed here:

C4: Store user-collected data in our database.

C5: Provide verified data to GLOBE.

C6: App functions offline.