

CS Capstone Design

Technical Demo Grading Sheet (100 pts)

TEAM: In Your Orbit

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: ISD Generation. We need to correctly generate ISDs using ALE through a web service.

C2: ISD Storage. We need to correctly store an ISD in a database, including using custom IDs to identify versioning.

C3: ISD Retrieval. We need to correctly retrieve an ISD from a database through a web service.

C4: ISD Update. We need to correctly update ISDs, including using updated custom IDs. Updated ISDs need to be stored with original ISD and the kernel sources need to be stored with ISDs for easy source look up.

C5: ISD Compression. We need to compress ISDs into an efficient but non-lossy format.

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: ISD Generation Demo

Challenges addressed: ISD Generation.

Flight Plan: Step by step overview of demo

1. Interact with web service
2. Request an ISD generation through web service
3. Verify correct ISD generation

Evaluation:

✓ Convincingly demo'd each of listed challenges?

✓ Other evaluative comments:

Demonstration 2: ISD Storage Demo

Challenges addressed: ISD Storage.

Flight Plan: Step by step overview of demo

1. Send ISD to database
2. Generate ID for ISD
3. Store ISD in database
4. Verify correct storage of ISD

Evaluation:

✓ Convincingly demo'd each of listed challenges?

✓ Other evaluative comments:

Demonstration 3: ISD Retrieval Demo

Challenges addressed: ISD Retrieval.

Flight Plan: Step by step overview of demo

1. Interact with web service
2. Request a stored ISD through web service
3. Retrieve ISD from database
4. Verify correct ISD retrieval

Evaluation:

✓ Convincingly demo'd each of listed challenges?

✓ Other evaluative comments:

Other challenges recognized by not addressed by demo:

ISD Update and ISD Compression.