CS Capstone Design

Alpha Prototype Demo Grading Sheet (100 pts)

TEAM: Empyrean

Overview: The purpose of the Alpha Prototype Demo is to clearly demonstrate the extend to which all core user flows envisioned for the product are supported by the current implementation. The flow of the demo is very natural: you simply introduce each of the major usage scenarios, and then follow through each of them, just as an end-user would in using the product. Grading is based on how completely the current product supports all key functional aspects within a coherent, realistic user flow. Interface refinement, clunkiness, and aesthetics should be ignored for now; the focus is simply on functional ability to complete the user flow.

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

Overview of major product use cases

Based on the Requirements document and subsequent development discussions with your client and mentor, briefly describe each of the key use cases for your product:

UC1: Perform an Observation Any user should be able to put an object into the object box, gather information on where it is in the sky, and click observe to perform an observation with the actual spectrograph and camera.

UC2: Real time status Updates. As the camera works, it should send updates about its progress to the frontend, which should automatically be updated. These should be seen very quickly.

UC3: Basic Login. When a user first enters the website, they will be prompted for a login. After submitting their credentials, they will be accepted into the site, or be told to try again.

User Flows: Detailed walk-through for each use case:
In this section, we outline the demonstrations of each use case that we have prepared, giving a step-by-step outline of the user flow that would be followed by a real user for that use case.

Use case 1: Perform an Observation

User Flow: Step by step overview of user interactions with product

1. A user, on the observation page, puts an astronomical object, (m1-m100, for example) and hits resolve
2. The attributes of this object are returned to the user, as the user chooses a number of exposures and length of exposures
3. The user hits observe, submitting the observation to the backend for processing
4. The default log is given back to the user as a sort of receipt. There should be some values missing
5. The camera and spectrograph do work, then update the logsheet with completed data

Evaluation and Comments:

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

Use Case 2: Real Time Status Updates

User Flow: Step by step overview of user interactions with product

1. The user, upon landing on the observation page, will have statuses with actual values visible to them
2. While the camera and spectrograph do work, their status will change, which will be reflected in this status module

Evaluation and Comments:

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

Use Case 3: Basic Login

User Flow: Step by step overview of user interactions with product

1. The user will navigate to the website, and be greeted with login information
2. The user will put in their credentials, and hit the submit button
3. Once validated, the user will be sent to the observation page if successful, or told to try again if not successful.

Evaluation and Comments:

- ✔ Convincingly demo'd each of listed challenges?

- ✔ Other evaluative comments:

ETC, ETC...for all remaining Use Cases.

Known short-comings: Functionality still deficient/missing: