| Use Case Name: Create an observing program | ID: 2 | Importance Level: High |
|---|---|---|
| Primary Actor: Science Observer | | Use Case Type: Essential |

Brief Description: The Science Observer creates an observing program based on the Science Plan

Trigger: The astronomer wants to conduct an observing program

Type: External

Preconditions:
1. The Science Observer is authenticated by logging in to his/her account
2. The Science Plan is created, tested via the virtual telescope, and submitted to the system by the Astronomer
3. The Science Plan is validated by the Science Observer

Normal Flow of Events:
1. The Science Observer selects the "Create Observing Program" option from the menu
2. The system displays a create observing program page, which contains several fields to input and a button to submit the program.
3. The Science Observer inputs the details of the observing program including plan no., optic primary, f-Stop, optics secondary RMS, and fold mirror degree.
4. The Science Observer selects the fold mirror type option.
5. The Science Observer inputs the module content and calibration unit.
6. The Science Observer selects the light type of option.
7. The Science Observer inputs the teleportation pair.
8. The Science Observer clicks the submit button to create the observing program.
9. The system displays the state of the observing program (valid/invalid). If it's invalid, return to step 3.

Postcondition:
1. The details and configurations of the observing program are stored in the observing program datastore