**Red Team**

**Stargazer**

**Automatic Telescope Control System**

**Release Notes**

**Team Members:**

Rob Grmek

Robert Smith

**Instructor:**

**Youry Khmelevsky**

**Course:**

**COSC 471**

**Date:**

**March 31st, 2010**

# ****Release Notes: Prototype: Release #7****

In this release, we have focused our efforts on implementing the functionality for image capturing.

#### Repository Information:

This release is tagged on our GitHub repositories (both in documentation and as an application) as release: v7.0.1

How to checkout a tagged version (after cloning the remote GitHub repository):

|  |
| --- |
| git checkout v7.0.1 |

To view the release for the web application, please view our repository: <http://github.com/RedTeamCOSC470/Stargazer>

Note: see the “Downloads” tab in this repository to download the files in zip format.

Also, please see the wiki page for up-to-date current documentation about the Stargazer project, here:

<http://wiki.github.com/RedTeamCOSC470/Stargazer/>

To view the release for the telescope-controlling application, please view our repository:

<http://github.com/RedTeamCOSC470/Controller-Application>

To view the release for the Stargazer documentation, please view our repository:

<http://github.com/RedTeamCOSC470/Documentation>

Steps on environment set up and configuration to run the Stargazer system can be viewed in the developer’s guide.

#### Features Completed:

The following development for the web application was completed this iteration:

* Image capturing – can now capture images; once a schedule is created, the telescope controlling application will signal the camera to start taking images. The camera can also accept parameters for changing values for ISO, exposure, etc.
* Image transference – images taken by the camera will be saved locally to the machine that is connected to the camera. After, the telescope-controlling application will then call the command line batch file which runs a curl command to create an HTTP POST request to the web server, attaching the image file. The web server will then process the request, create thumbnail images from the file and save the image locally to the web server machine.
* Mobile views – CSS has been updated and functionality for searching through the scheduling log changed.

#### Features Incomplete:

The following features have to be postponed for next iteration:

* Full integration with the camera and telescope (missing an adapter).
* Image compilation – compiling a larger high resolution image from a collection of images.

#### Web Application Bugs:

The following list indicates what bugs and issues are present in this current release:

* There is an issue when creating a schedule with a celestial object as an input then edit that schedule to change it to use coordinates instead; it will still use the celestial object.
* Not clicking a day when creating a schedule results in error.
* Scheduling may not work as intended now that additional parameters have been added.
* Logging in after not logging out will result in an HTTP 500 error page being displayed.

#### Web Application Testing:

Testing information can be viewed in the Stargazer test plan document. A quick review will be placed here.

For development, the web system can be viewed at the following URL: <http://cis470star09f.okanagan.bc.ca>

To login with an account with admin privileges, go to use:

Username: admin

Password: stargazer09

To login with an account with regular user privileges, use:

Username: user

Password: test

Reminder: the telescope must be turned on before the jobs which control the telescope are scheduled to run.

Furthermore, in order to run the unit test suite for the web application, go to the root of the web application and then run the following command:

|  |
| --- |
| rake test:units |