Native Installation of Phamerator

Program Installation Instructions

1. **Required Packages**

   Phamerator requires the following packages to be installed through apt-get in Ubuntu:
   - bzr
   - clustalw
   - curl
   - mysql-server*
   - pv
   - pyro
   - python-biopython
   - python-mysqldb
   - python-pygoocanvas
   - python-pp
   - python-webkit

   Install them using the following command replacing X with the package names:
   ```
   sudo apt-get install X
   ```

   *When prompted for a mysql password, enter "phage"

2. **Phamerator**

   Phamerator uses Bazaar (http://bazaar.canonical.com/en/) to keep track of version numbers and releases. In order to use this program, we simply create a new "Branch" of the program on the local machine. This branch is automatically updated on launch to the version of the central branch, eliminating the need to manually check for updates.

   To install phamerator using Bazaar, first create an "Applications" directory in your home folder. Then, run the following command to download and set up the branch:
   ```
   bzr branch http://phamerator.csm.jmu.edu/files/phamerator.release
   ```

   Phamerator can be run by navigating to ~/Applications/phamerator.release/phamerator and typing the command
   ```
   ./phamerator.sh
   ```

   Alternatively, you can create a shortcut or link to run the phamerator.sh script.