CAT THINGS

Backup Plan

Nicholas McHale, Andrew McCann, Susmita Awasthi,
Manpreet Bahl, Austen Ruzicka, Luke Kazmierowicz,
Hillman Chen

Backup Plan

        This document will outline the method for automating the backup process. We have 2 systems that must be reliably backed up, and those backups must be recoverable. The systems are the database system, and the app codebase. The database information will be hosted and backed up by the CAT, therefore we do not need to worry about backing up the database.

        For the codebase an automated system has been setup to automatically save a snapshot of the code daily. In this fashion we will always have a copy of the project that is no older than 24 hrs.

Automation Plan

1. A bash script has been scheduled to run every night at 12:30 AM. This is done via crontab. To setup crontab:
    a) Enter the command "crontab -e" at your terminal
    b) Add the following line to the end of the crontab file:
        i) `"29 0 * * * bash ~/<path_to_backup_script.sh>"`
2. The bash script that is initiated daily by step 1 will complete the following tasks
    a) Pull the most recent changes from github to a local repository
    b) Create a Tarball of the repo.(note that using Git archive only grabs the files in master)

Here is an example backup script.

```bash
#!/bin/bash
log_file=~/backup_catthings/log.txt
tar_file=~/backup_catthings/backup_$(date +%Y%m%d).tar

cd ~/backup_catthings/THINGS/
echo "#########################################" >> $log_file
date >> $log_file
echo "Backup ran." >> $log_file
git pull >> $log_file
git archive --format=tar --output=$tar_file HEAD >> $log_file
echo "#########################################" >> $log_file
#by dropping the tail into STDOUT we will be emailed results by crontab
tail $log_file
```