

Homework 1

*Instructor: Prabal Dutta**Due: Friday, March 15, 2013 – 2:30 PM***SVN Repository on CAEN's AFS**

This SVN repository was created on CAEN since all of the students in this class (should) have access to CAEN accounts (see: <http://www.engin.umich.edu/caen/accounts/access.html> if you don't). We're using AFS accounts to manage permissions. The specific commands that were used to set up the class repository on CAEN, assuming the bash shell, are shown below. If you are new to AFS permissions, some details are available at: <http://www.engin.umich.edu/caen/faqs/storage/afs/>. The commands are provided only as reference.

Checklist

Here's what you need to do for the project proposal.

- Check out the class repository by typing the following on a machine that has an SVN client installed:

```
svn co svn+ssh://HOST:PATH
```

replacing:

HOST with: `loginlinux.engin.umich.edu`

and

PATH with: `/afs/umich.edu/user/p/r/prabal/Public/html/eecs582w13/svnroot`

- Change to the `projects` directory:

```
cd svnroot/projects
```

- Copy the template directory to a new directory. The new directory's name must be dash-separated concatenation of the alphabetically-ordered uniquenesses of the project team members. For example, if I were to work with Pat Pannuto on a project, my directory name would be: `ppannuto-prabal`, and the command would be:

```
cp -R template ppannuto-prabal
```

- Be sure to delete any copied `.svn` directories:

```
rm -rf ppannuto-prabal/.svn
```

- Now add your newly-created directory into the repository:

```
svn add ppannuto-prabal
```

- Make edits to the template in *your* directory to reflect your project's details. Once you're done editing your template, check it back into the repository:

```
svn ci -m "Proposal first draft"
```

SVN Repository on CAEN's AFS

Following are some notes on how I set up the class repository in case you'd like to do something similar yourself in the future.

```
# SSH to a CAEN machine
ssh prabal@loginlinux.engin.umich.edu

# Make a directory to host the SVN repository
cd Public/html
mkdir eeecs582w13

# Verify the AFS permissions
fs la eeecs582w13

# Add unique names and permissions to the ACL (assume in uniq.txt)
for name in `cat uniqs.txt`; do fs sa eeecs582 $name rlidwk; done

# Then set up svn like normal
cd eeecs582w13

# Now create the SVN repository
svnadmin create svnroot

# Verify the repo exists by checking it out (from a another machine)
svn co svn+ssh://loginlinux.engin.umich.edu:/afs/umich.edu/user/p/r/prabal/Public/html/eeecs582w13/svnroot
```