

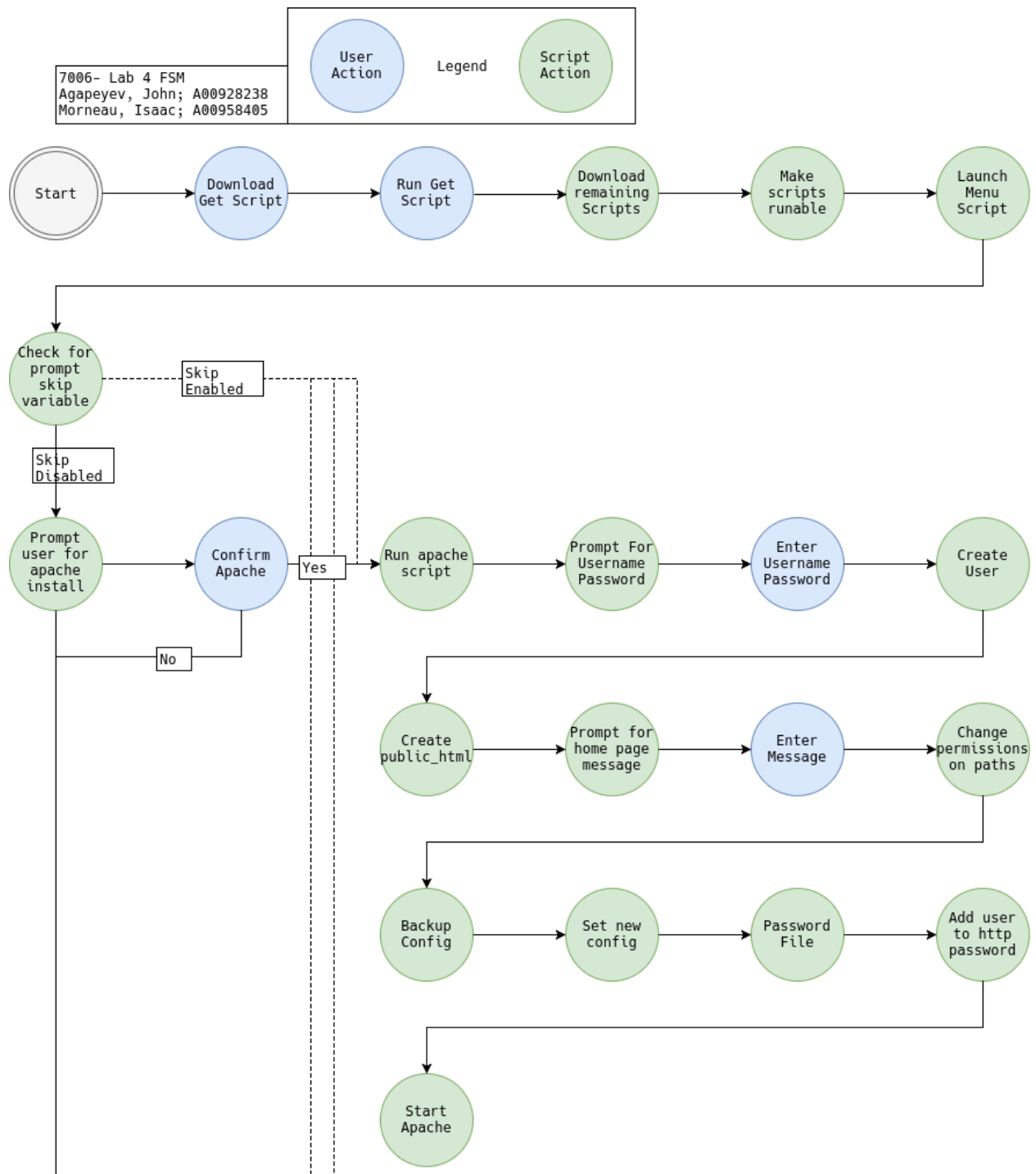
# 7006 Lab 4

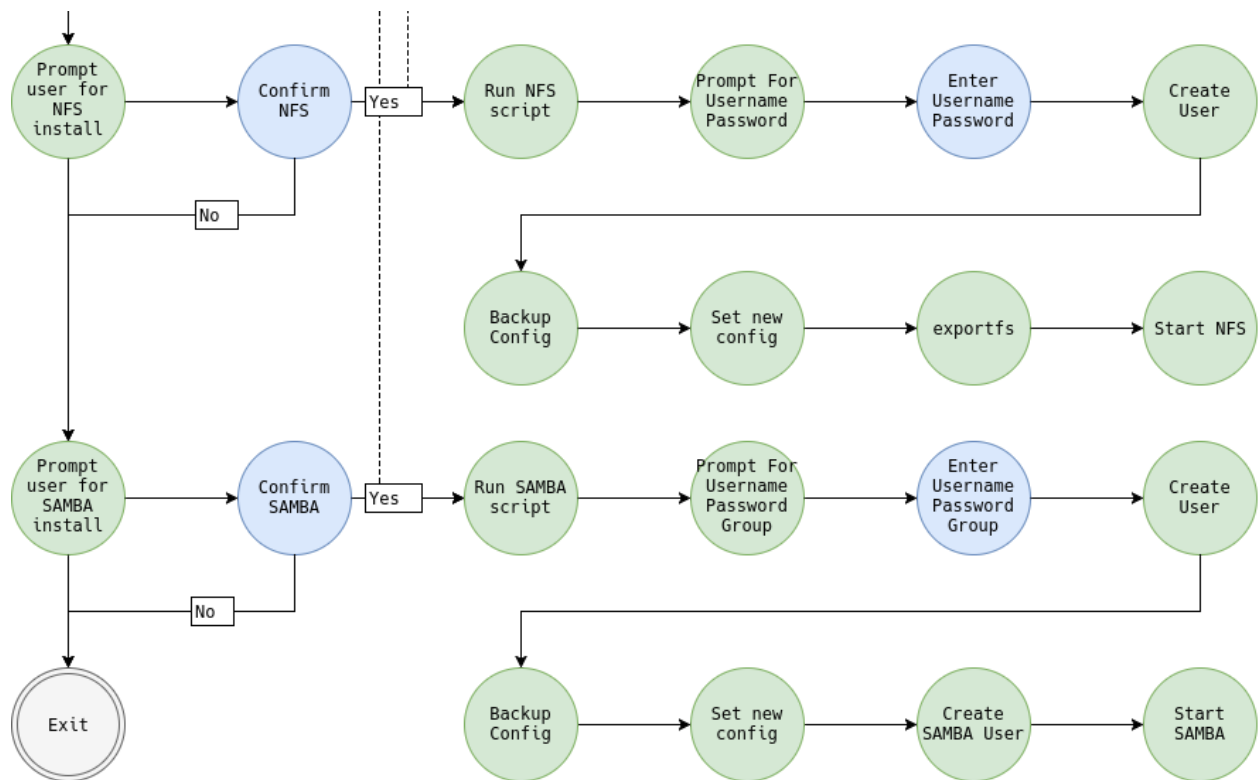
Agapeyev, John; A00928238

Morneau, Isaac; A00958405

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## Finite State Machine of Steps:





## Usage And Testing

### Prerequisite

All that is needed for getting started is to curl the `get.sh` script

```
`curl https://raw.githubusercontent.com/isaacmorneau/7006-final-script/master/get.sh > get.sh`
```

Ensure the script is executable with

```
`chmod 777 get.sh`
```

### Installation of Apache

To begin run the `get.sh` and it will get the remaining required files.

#### Step 1

Run `./get.sh`.

#### Step 2

Enter `y` when prompted to install apache.

### Step 3

When prompted, enter your desired username. For this example we will enter `'john'`.

### Step 4

When prompted, enter your desired password. For this example we will enter `'asdf'`.

### Step 5

When prompted, enter your desired message. For this example we will enter `'Hello John World'`.

### Expected Result

```
[root@localhost 7006-final-script]# ./get.sh
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   100    147    100    147     0     0    267     0 --:--:-- --:--:-- --:--:--    267
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   100    2062    100    2062     0     0   5813     0 --:--:-- --:--:-- --:--:--   5824
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   100    1135    100    1135     0     0   2941     0 --:--:~ --:~:~ --:~:~   2940
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
   100     469    100     469     0     0   1313     0 --:~:~ --:~:~ --:~:~   1313
Final Script
Install apache? [y/n]: y
Enter the apache username
john
Enter the apache password
asdf
Enter the apache web message
Hello John World
Installing httpd
```

### Error Handling

If an incorrect character is entered at a yes no prompt it will continue reprompting until a correct character is received.

## Example

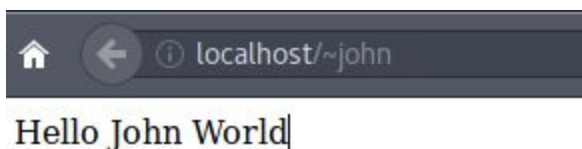
```
[root@localhost 7006-final-script]# ./menu.sh
Final Script
Install apache? [y/n]: r
Install apache? [y/n]: q
Install apache? [y/n]: b
Install apache? [y/n]: y
Enter the apache username
```

## Expected Result

Once the three pieces of information are provided from steps 3,4, and 5 the rest of the installation will complete on its own.

```
Last metadata expiration check: 0:07:51 ago on Mon 16 Oct 2017 05:41:21 PM PDT.
Package httpd-2.4.25-8.fc26.x86_64 is already installed, skipping.
Dependencies resolved.
Nothing to do.
Complete!
adding user:john
useradd: warning: the home directory already exists.
Not copying any file from skel directory into it.
Creating mailbox file: File exists
Creating public_html
mkdir: cannot create directory '/home/john/public_html': File exists
Adding basic html file
Chmod 777'ing all the myUser folders/files
Backing up userdir.conf to home directory
Writing config to /etc/httpd/conf.d/userdir.conf
Creating html passwords file
mkdir: cannot create directory '/var/www/html/passwords': File exists
Chmod 777'ing passwords file
Getting website password
New password:
Re-type new password:
Adding password for user john
```

## Final Result of Apache Install



The screenshot shows a web browser interface. The address bar at the top contains a home icon, a back icon, and the text 'localhost/~john'. Below the address bar, the page content displays 'Hello John World' in a serif font.

## Installation of NFS

### Step 1

Running either `./get.sh` or `./menu.sh` if `get.sh` was already run will provide you with a prompt for nfs. Enter

### Step 2

When prompted, enter your desired username. For this example we will enter `john`.

### Step 3

When prompted, enter your desired password. For this example we will enter `asdf`.

### Expected Output

Once the three pieces of information are provided from steps 2, and 3 the rest of the installation will complete on its own.

```
Restarting httpd
Apache.sh exited successfully
Install nfs? [y/n]: y
Enter the name of the user to setup nfs for:
john
adding user:john
useradd: user 'john' already exists
add no root squash fs? [y/n]:y
Exporting the file system
/home/john      192.168.0.0/255.255.255.0(ro,sync,wdelay,hide,no_subtree_check,se
ec=sys,secure,root_squash,no_all_squash)
/home/john      <world>(rw,sync,wdelay,hide,no_subtree_check,sec=sys,secure,no_r
oot_squash,no_all_squash)
nfs.sh exited successfully
Install samba? [y/n]: y
Enter the name of the user to setup samba for:
john
Enter the password for samba:
asdf
Enter the workgroup for samba:
trew
Last metadata expiration check: 0:08:17 ago on Mon 16 Oct 2017 05:41:21 PM PDT.
Package samba-2:4.6.8-0.fc26.x86_64 is already installed, skipping.
Dependencies resolved.
```

## Installation of SAMBA

### Step 1

Running either `./get.sh` or `./menu.sh` if `get.sh` was already run will provide you with a prompt for nfs. Enter

## Step 2

When prompted, enter your desired username. For this example we will enter `john`.

## Step 3

When prompted, enter your desired password. For this example we will enter `asdf`.

## Step 4

When prompted, enter your desired workgroup. For this example we will enter `trew`.

## Expected Output

```
nfs.sh exited successfully
Install samba? [y/n]: y
Enter the name of the user to setup samba for:
john
Enter the password for samba:
asdf
Enter the workgroup for samba:
trew
Last metadata expiration check: 0:08:17 ago on Mon 16 Oct 2017 05:41:21 PM PDT.
Package samba-2:4.6.8-0.fc26.x86_64 is already installed, skipping.
Dependencies resolved.
Nothing to do.
Complete!
New SMB password:
Retype new SMB password:
Mismatch - password unchanged.
Unable to get new password.
samba.sh exited successfully
[root@localhost 7006-final-script]# smbpasswd -a john
New SMB password:
Retype new SMB password:
Added user john.
[root@localhost 7006-final-script]#
```

## Additional Installation options

Once `get.sh` has been run once, the installation prompt is able to be skipped.

Running `menu.sh skip` will not prompt for each package and instead only ask for required information



Example output

```
[root@localhost 7006-final-script]# ./menu.sh skip  
Final Script  
Skip Prompt Enabled  
Enter the apache username
```