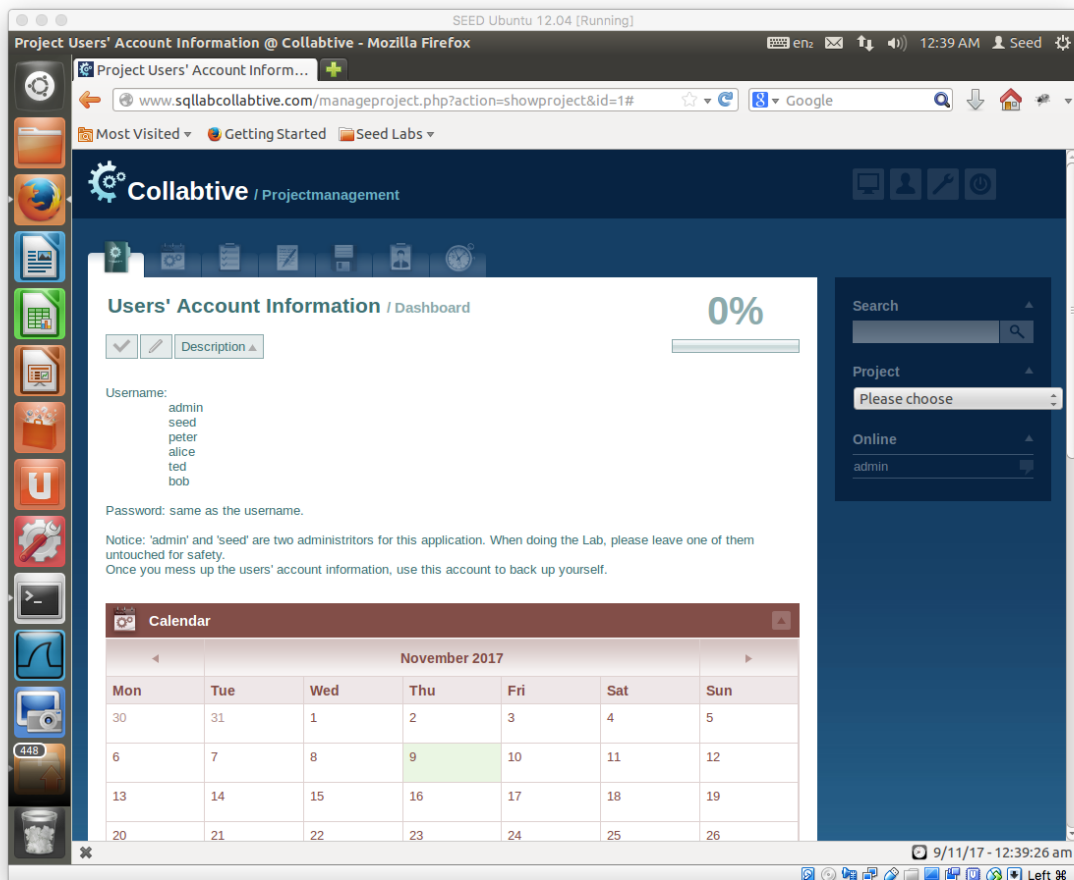


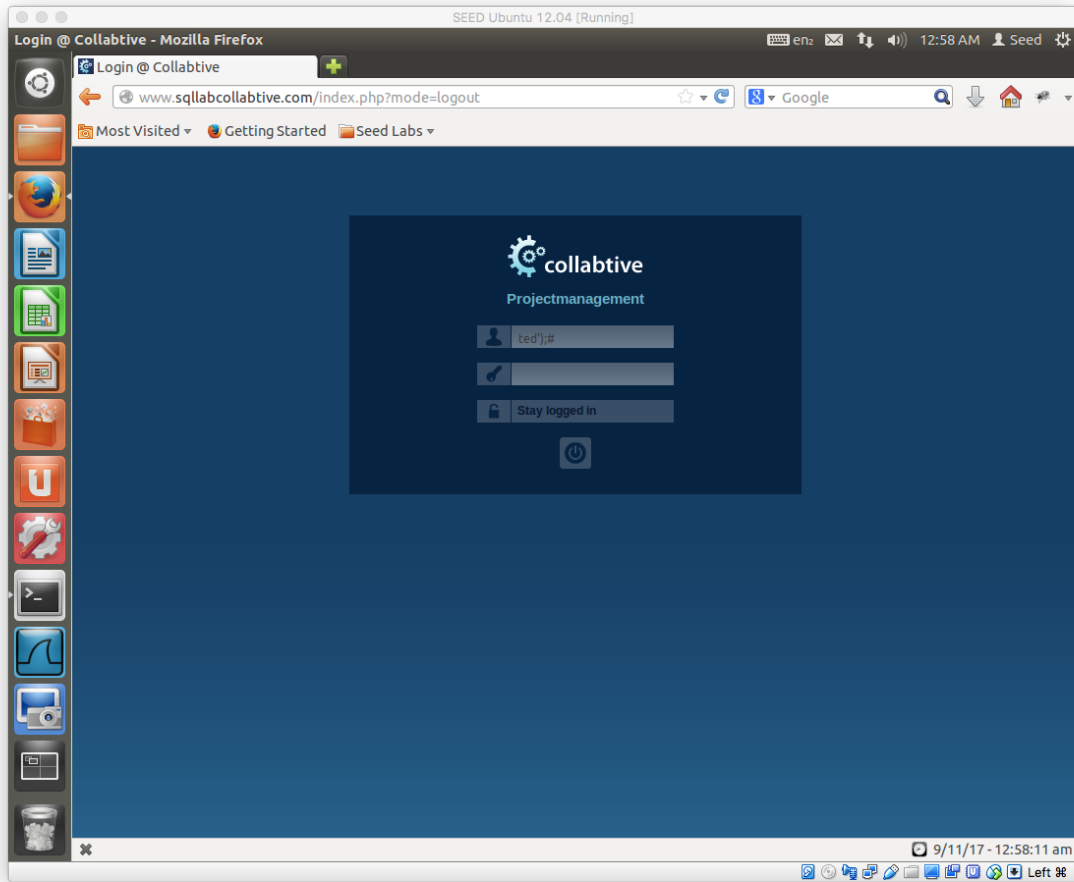
Name:
Joshua Gibbs

Github Link:
https://github.com/uPaymeiFixit/cpp-cs380-computer-networks/tree/master/Exercise_6

After editing `/etc/php5/apache2/php.ini` to disable `magic_quotes_gpc` and starting the apache2 service with `sudo service apache2 restart`, we log into the admin:admin account at www.sqlllabcollabtive.com, as shown below.



Next, we can log into Ted's account using SQL injection as shown in the next screenshot



SEED Ubuntu 12.04 [Running]

File Edit View History Bookmarks Tools Help

Desktop @ Collabtive

www.sqllabcollabtive.com/index.php?mode=login

Most Visited Getting Started Seed Labs

Collabtive / Projectmanagement

Desktop

My projects

Project	Done	Days left
Add project		

Calendar

November 2017

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

Collabtive 0.7

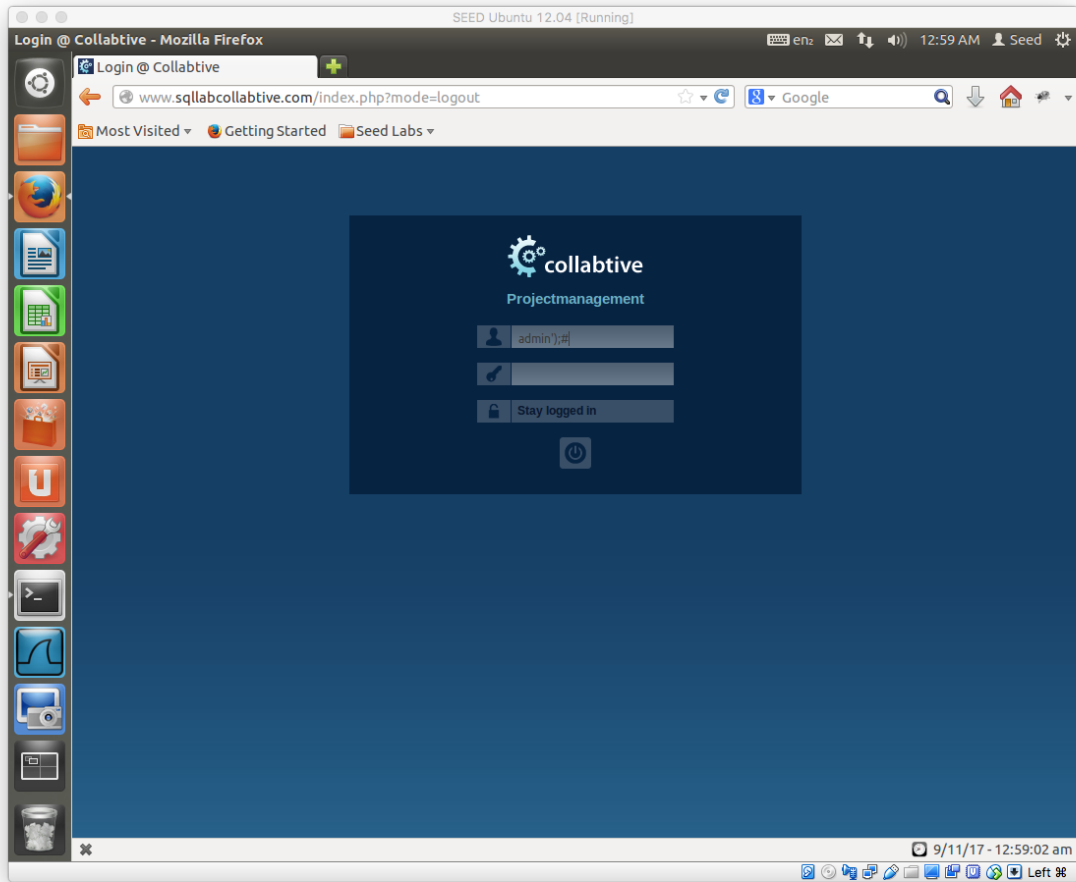
9/11/17 - 12:58:33 am

Search

Online

ted

Similarly, we can log into the admin account:



SEED Ubuntu 12.04 [Running]

File Edit View History Bookmarks Tools Help

Desktop @ Collabtive

www.sqllabcollabtive.com/index.php?mode=login

Most Visited Getting Started Seed Labs

Collabtive / Projectmanagement

Desktop

My projects

Project	Done	Days left
Users' Account Information	0%	

Add project

Calendar

November 2017

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3

Collabtive 0.7

9/11/17 - 12:59:12 am

Search

Project

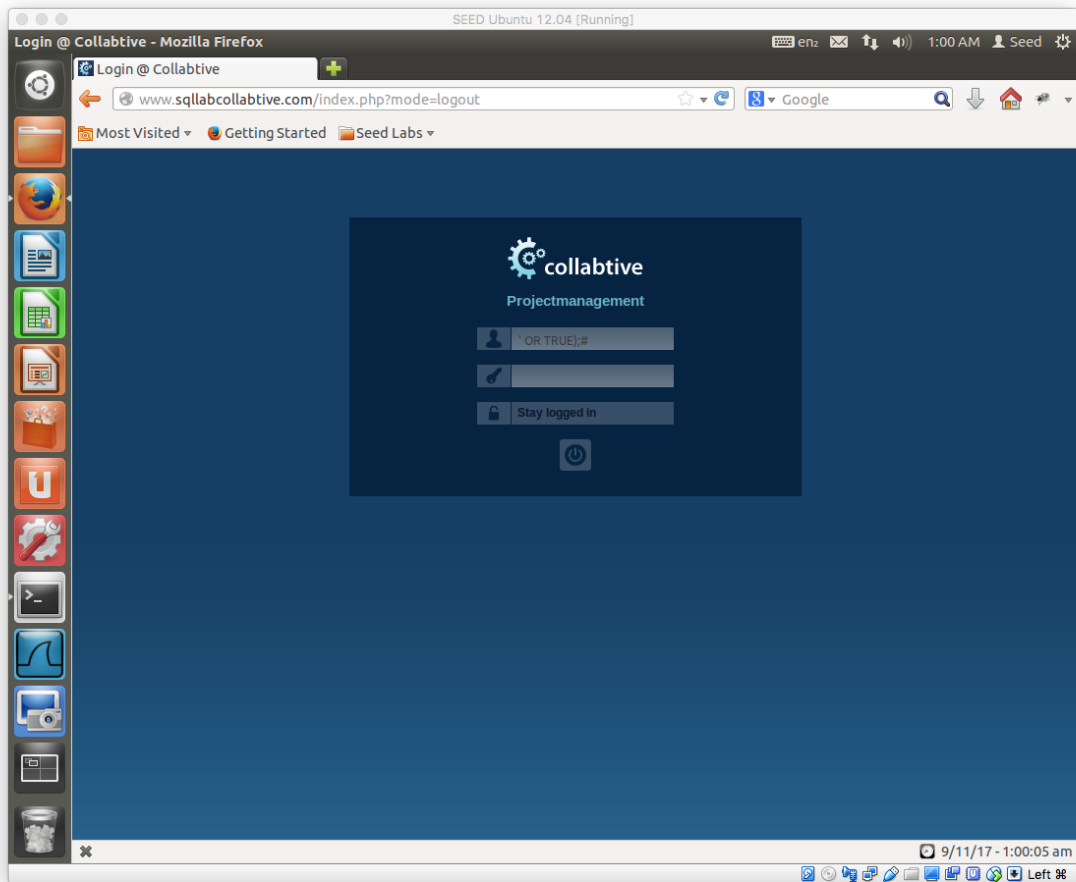
Please choose

Online

admin

ted

By logging in with the SQL injection ` OR TRUE) ; # we can gain access without an account. The website has no details for our “user”.



SEED Ubuntu 12.04 [Running]

File Edit View History Bookmarks Tools Help

en: 1:00 AM Seed


User profile @ Collabative

www.sqlabcollabative.com/manageuser.php?action=profile&id=1

Most Visited Getting Started Seed Labs

Collabative / Projectmanagement

User profile / admin



Company:

E-Mail:

URL:

Phone:

Cell phone:

Address:

Postcode / City:

Country:

Tags:

Projects

Project	Days left
Users' Account Information	

Search

Project

Please choose

Online

admin

Collabative 0.7

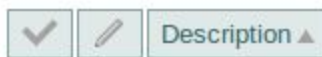
9/11/17 - 1:00:24 am

Left

BONUS:

Next, we will log in as ted (as shown above) and change the password of alice. A few pieces of information that are useful that we have found while analyzing `/var/www/SQL/Collabtive/include/class.user.php` is the password is stored as sha1, so whatever password we provide, we will need to store it as sha1. Second, we noticed the function `getAllUsers` (used to display users in previous screenshots) uses the SQL statement `SELECT * FROM `user` ORDER BY ID DESC LIMIT $start,$lim`, the important part of which is ordering by user ID. While this is certainly a guessing game, we're going to assume that developers are lazy, and therefore haven't deleted any of the first few users they added into the test database. This means that the list of users in the below screenshot is likely indexed by the user's id, making alice's id 3. If we guessed incorrectly, we could do something else like write a much more complex injection to list user's id's, or change alice's password based only on her username. But I'm lazy, and, spoiler alert, we guessed correctly.

Users' Account Information



Username:

admin
seed
peter
alice
ted
bob

Lastly, we notice that in the `edit` function, every parameter is passed through `mysql_real_escape_string` except for `$company`, which is commented out. That's curious.

We will change alice's password to

`f3bbbd66a63d4bf1747940578ec3d0103530e21d` (hunter2 encrypted with sha1) by passing in `\, `pass` = `f3bbbd66a63d4bf1747940578ec3d0103530e21d` WHERE ID = 3 # `` to the company field. Now we should be able to log into alice's account with the password hunter2!