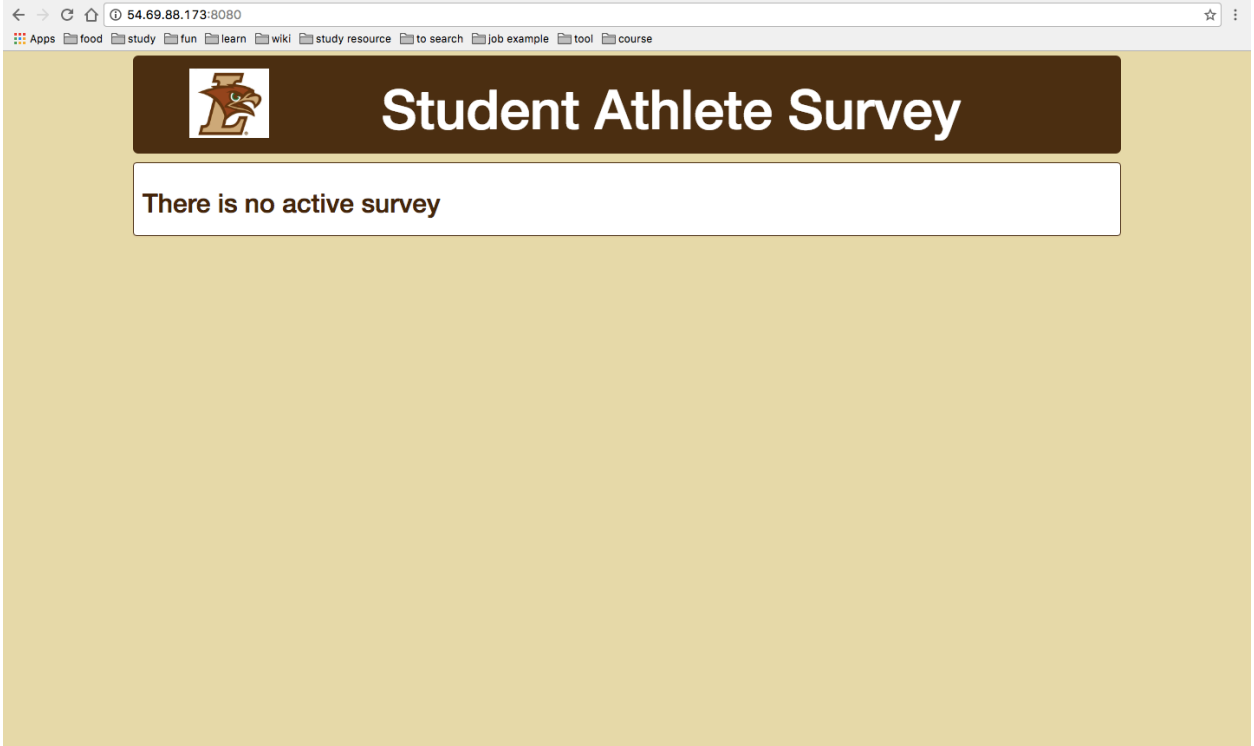
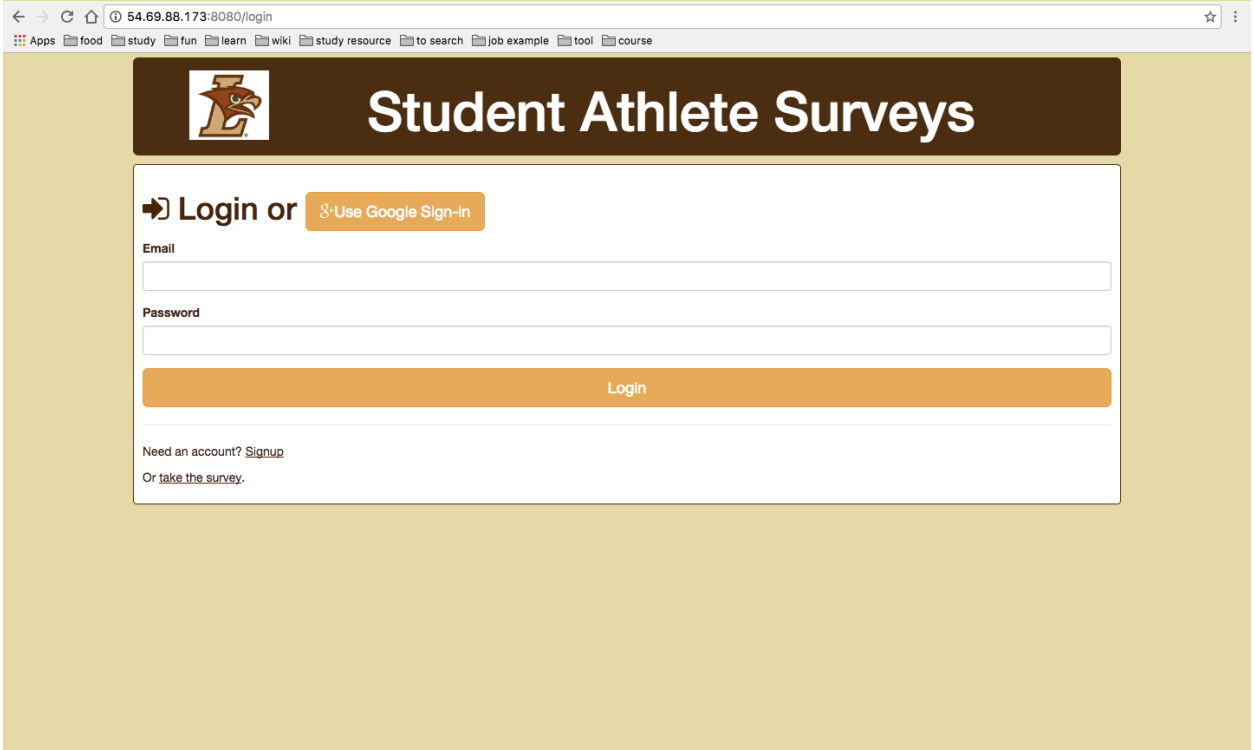
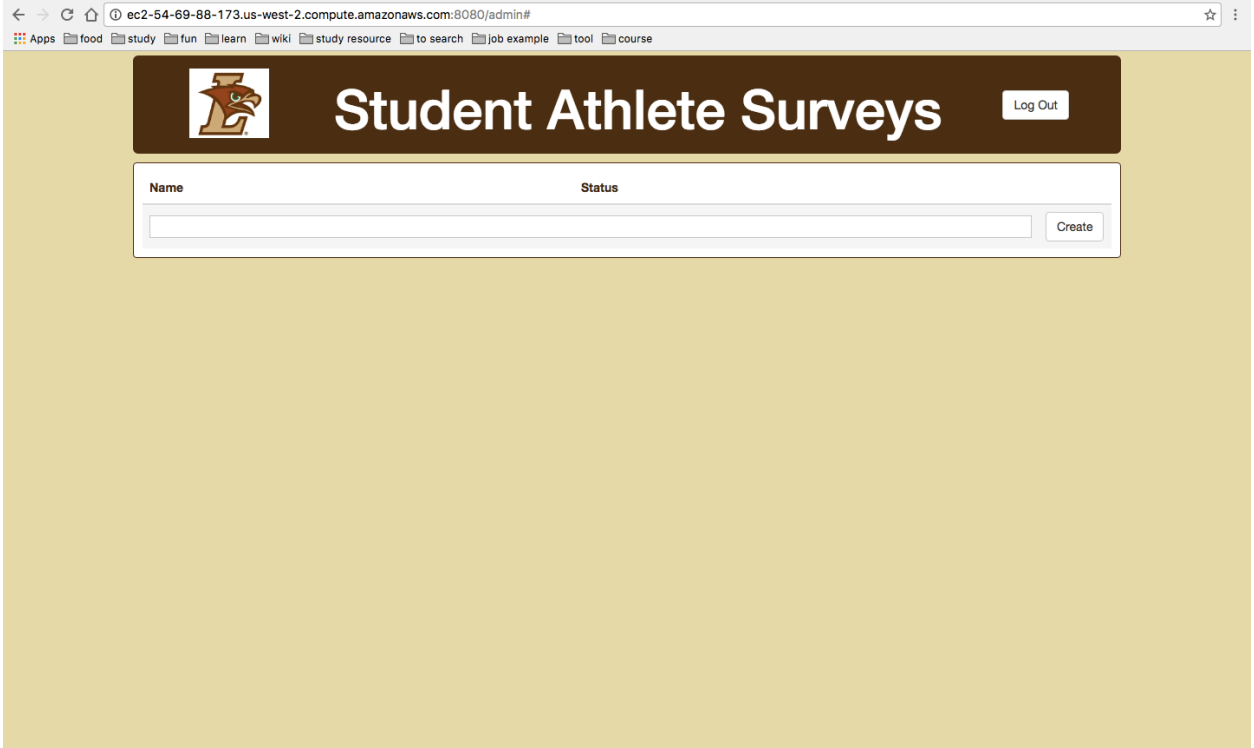
wel615 Weiheng Li 4847473196
groups with Xiaofeng Wu
First half
1.

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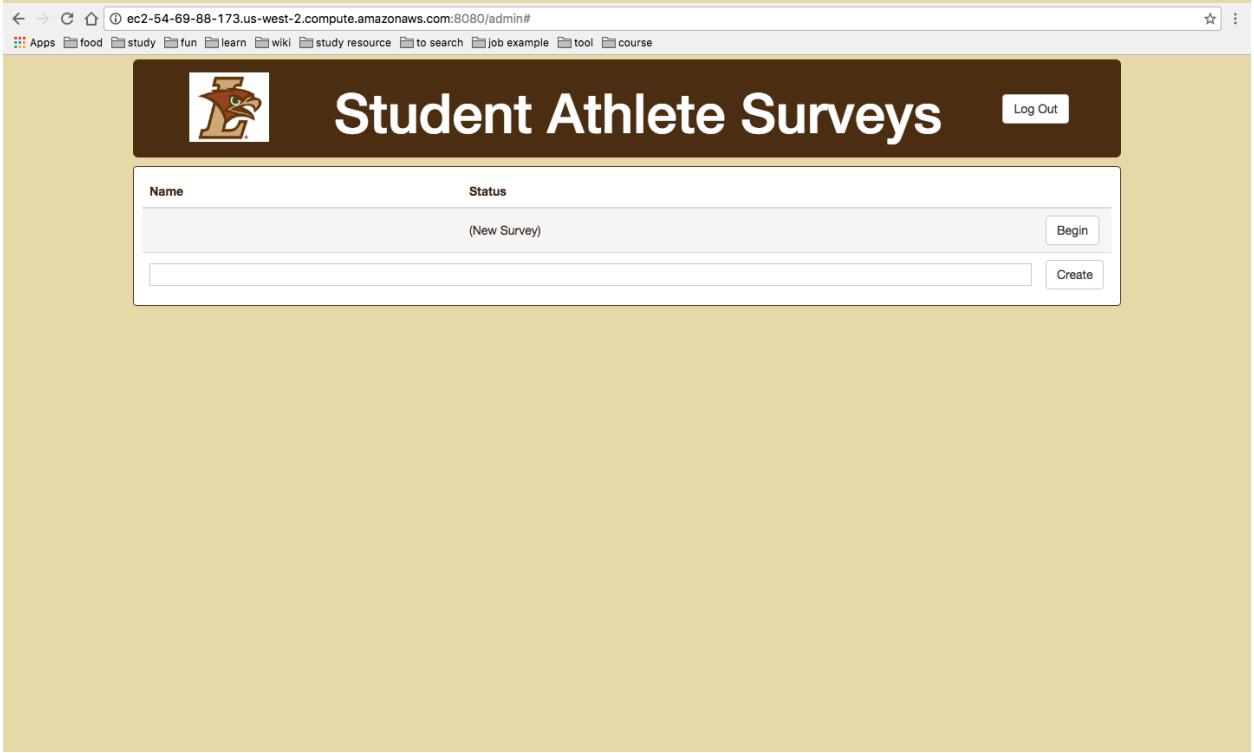
Apps food study fun learn wiki study resource to search job example tool course
Student Athlete Surveys
Log Out
Name
Status
Create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Student Athlete Surveys
Log Out
Name
Status
(New Survey)
Begin
Create

# Student Athlete Surveys

Log Out

Click 'Begin' to start the survey

Begin

ec2-54-69-88-173.us-west-2.compute.amazonaws.com:8080/admin/57e01c00c73be20e0549c32d

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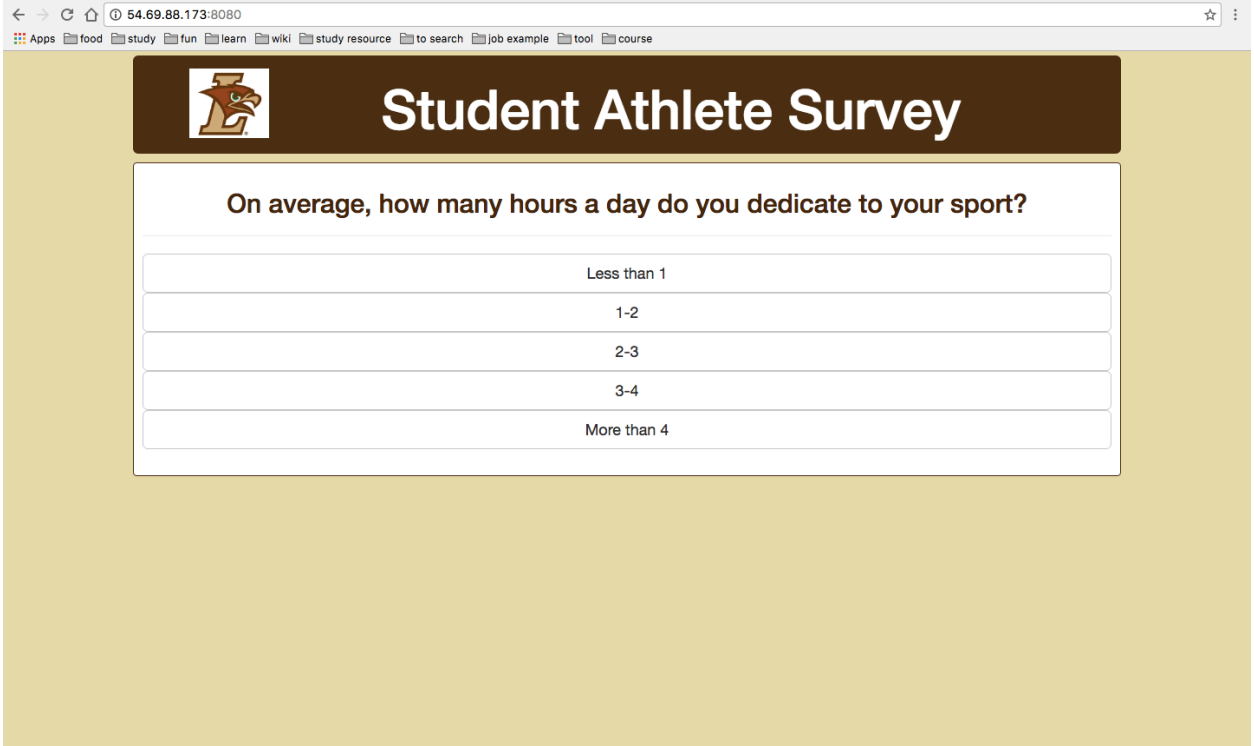
# Student Athlete Surveys

Log Out

On average, how many hours a day do you dedicate to your sport?

- Less than 1
- 1-2
- 2-3
- 3-4
- More than 4

End Response Period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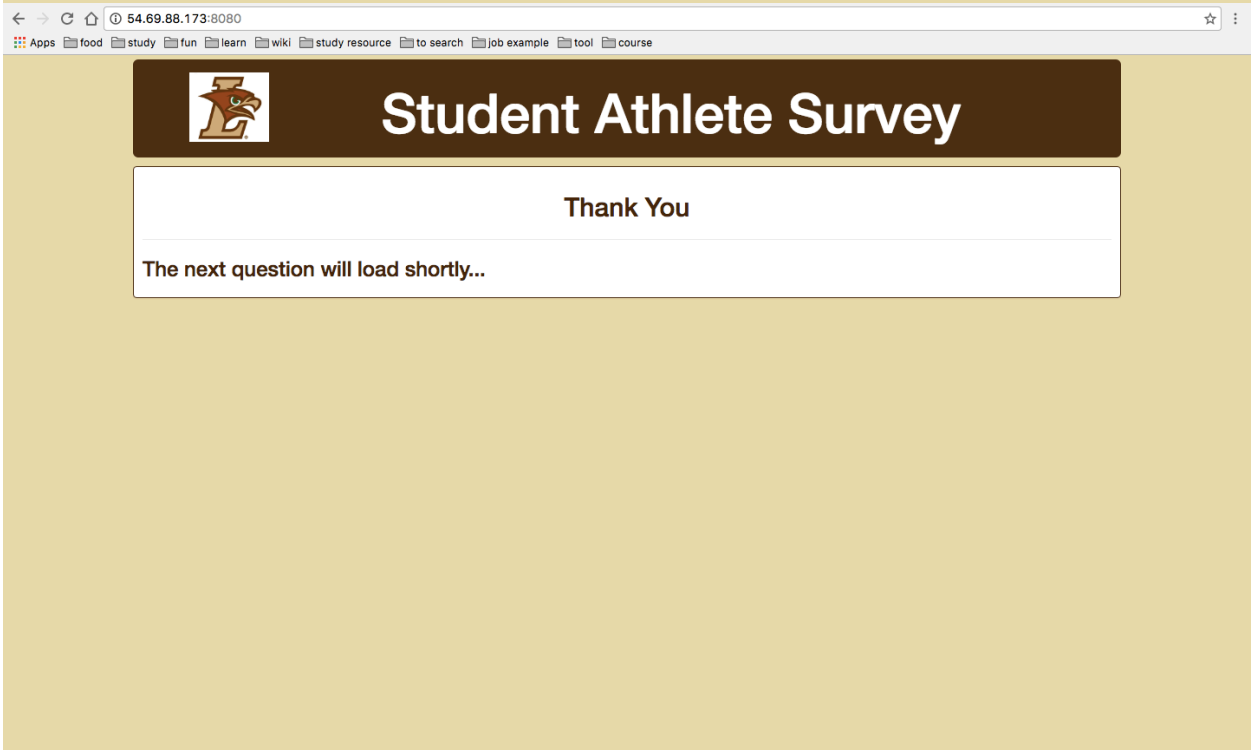
Student Athlete Survey
On average, how many hours a day do you dedicate to your sport?
Less than 1
1-2
2-3
3-4
More than 4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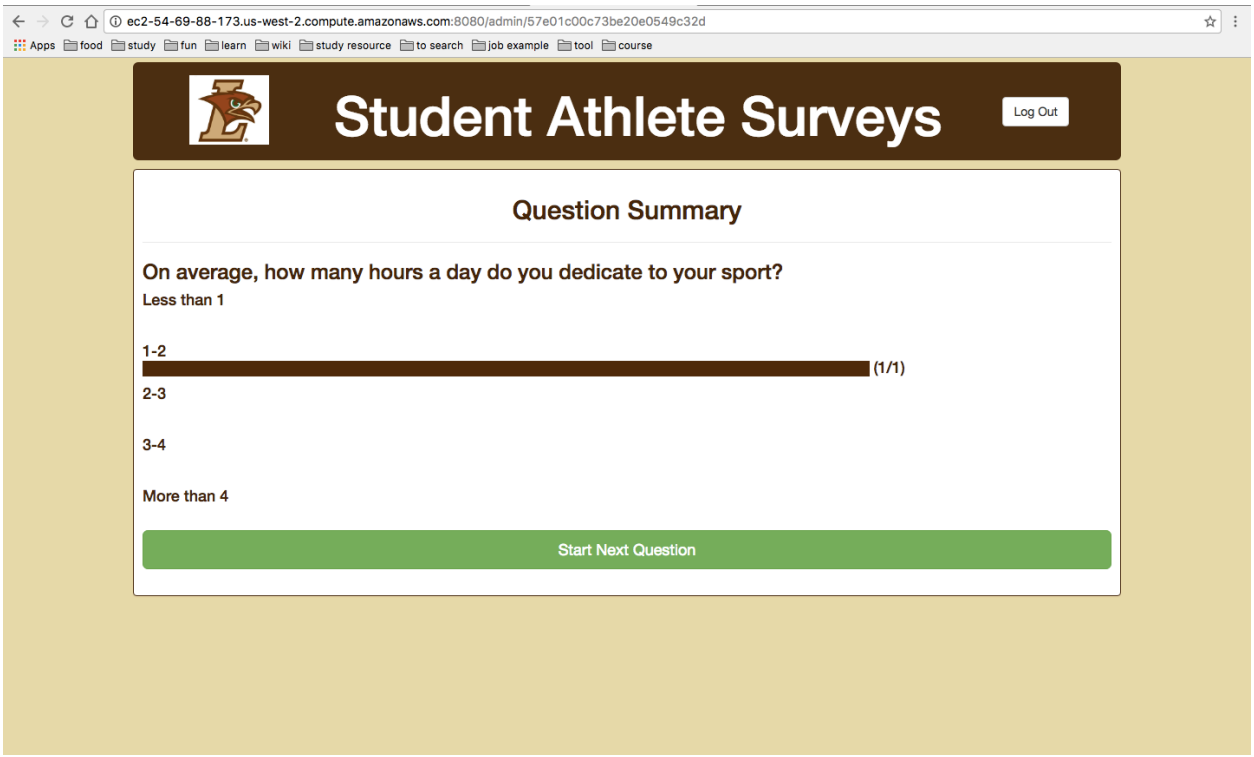
Student Athlete Survey
Thank You
The next question will load shortly...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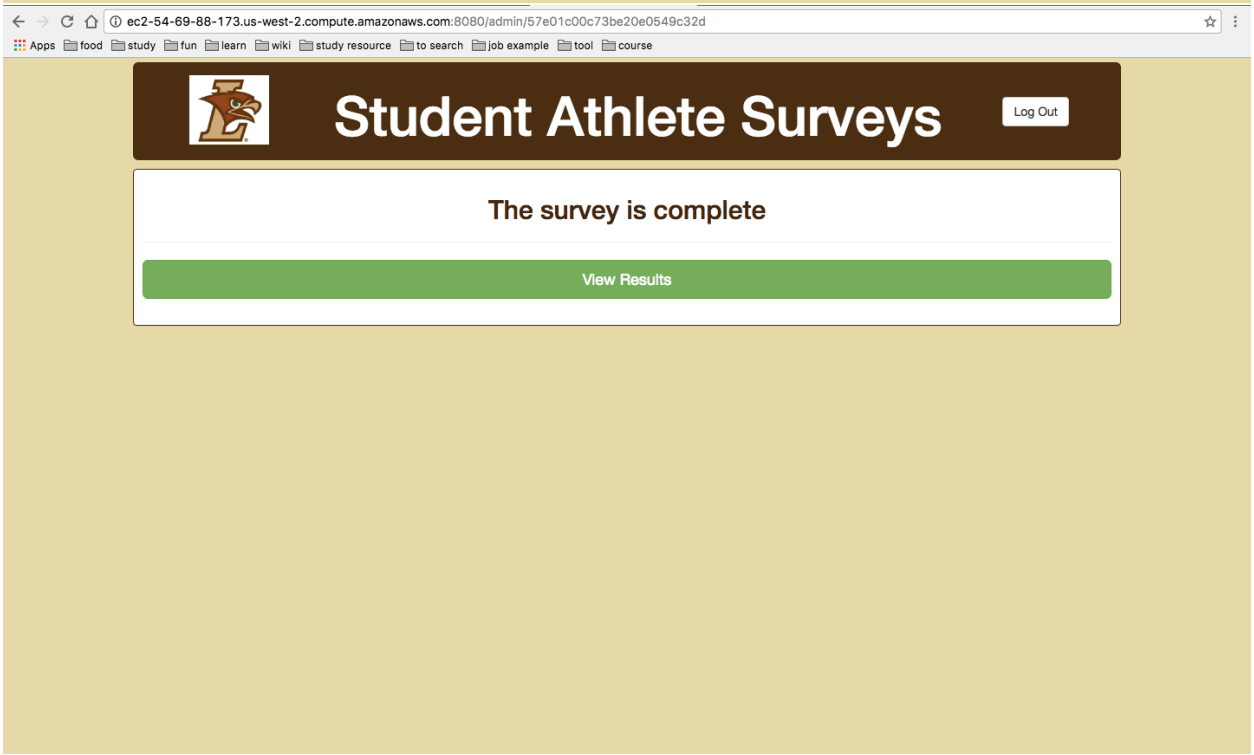
Apps food study fun learn wiki study resource to search job example tool course
Student Athlete Surveys
Log Out
Question Summary
On average, how many hours a day do you dedicate to your sport?
Less than 1
1-2
(1/1)
2-3
3-4
More than 4
Start Next Question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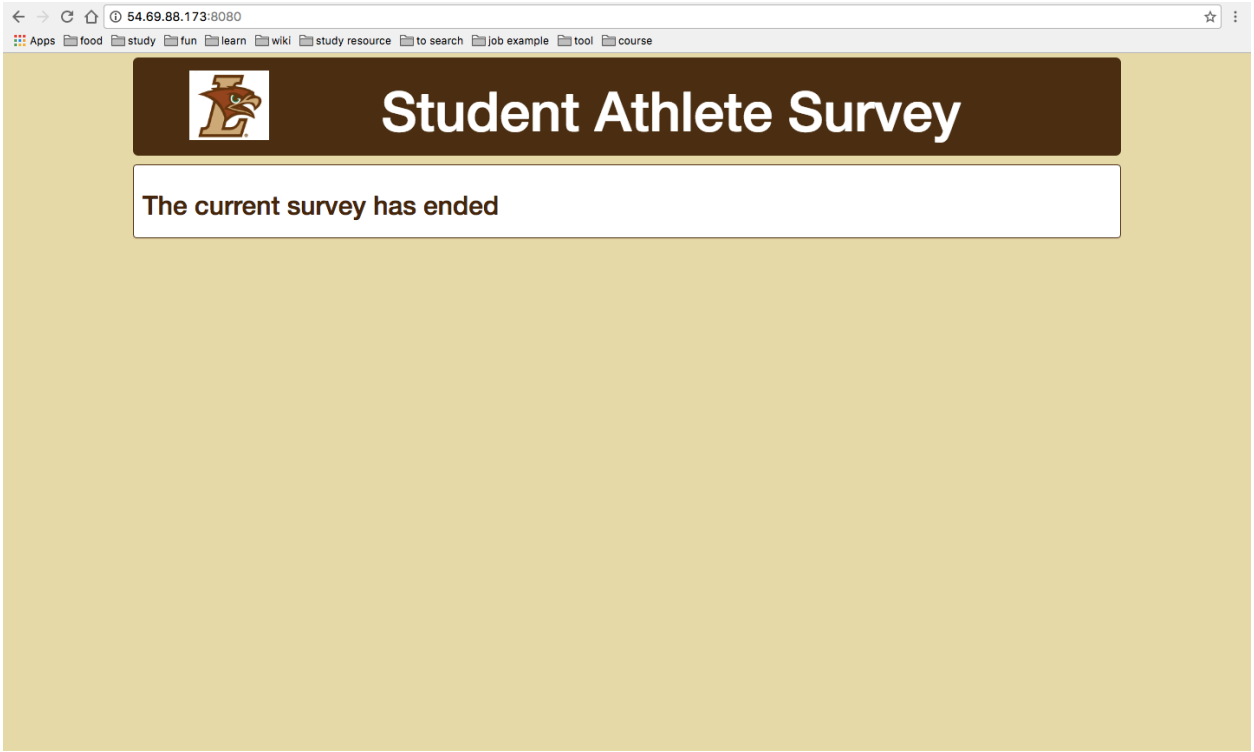
Apps food study fun learn wiki study resource to search job example tool course
Student Athlete Surveys
Log Out
The survey is complete
View Results


54.69.88.173:8080
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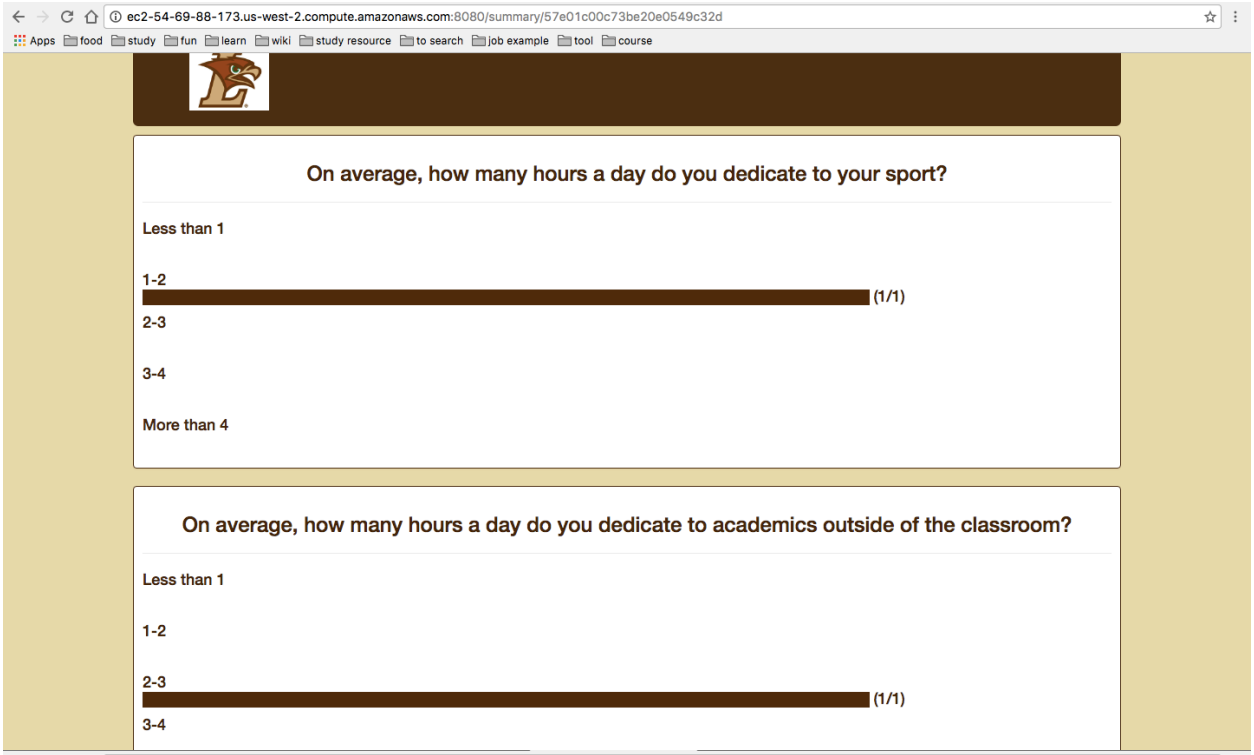
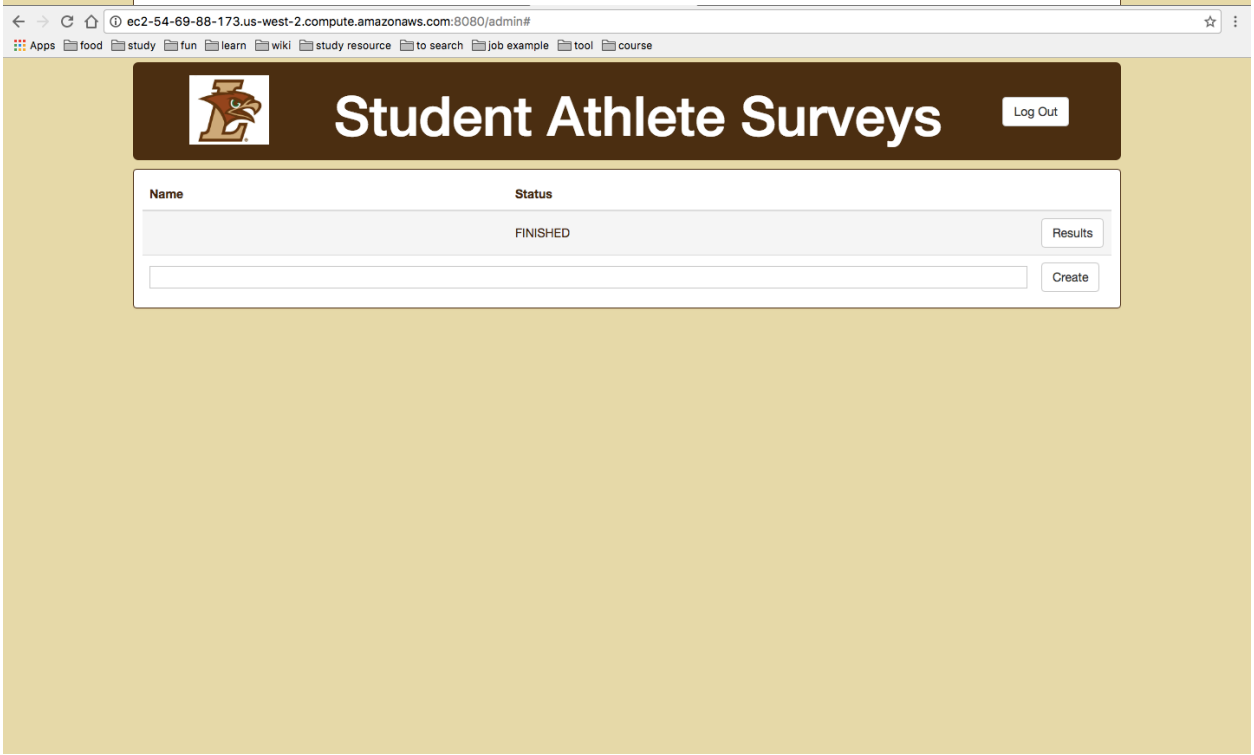
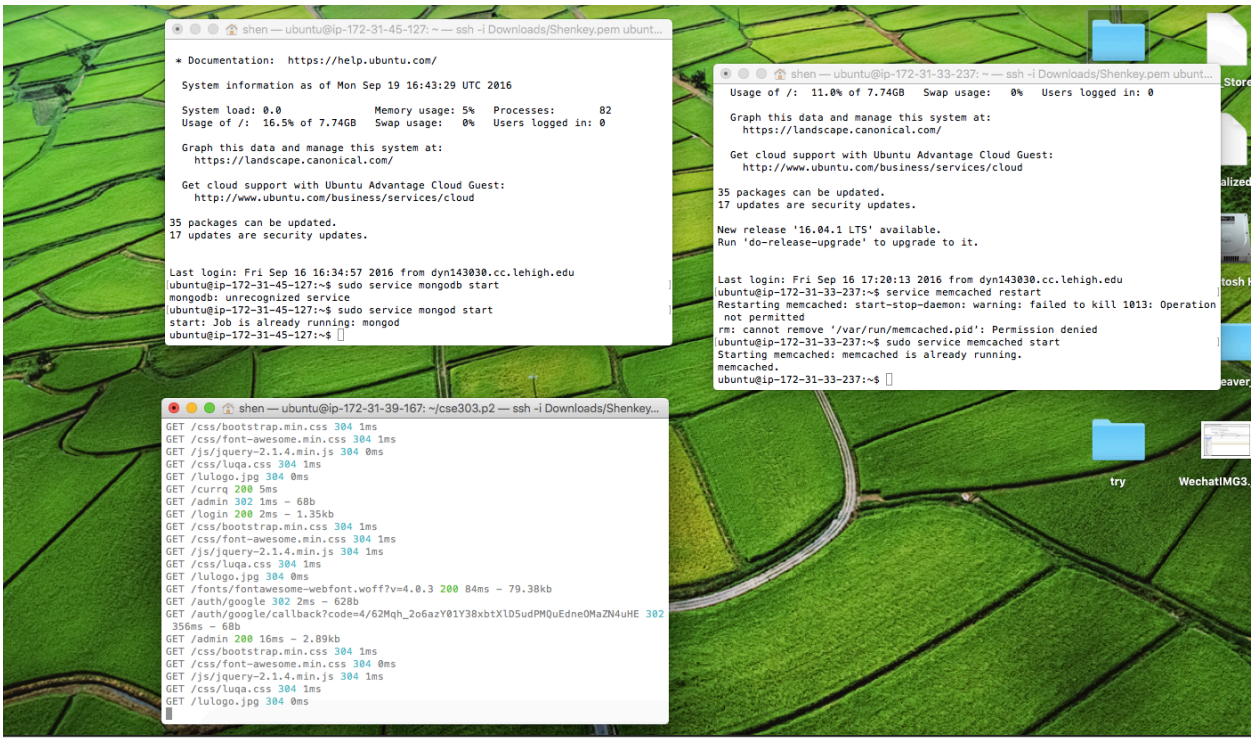
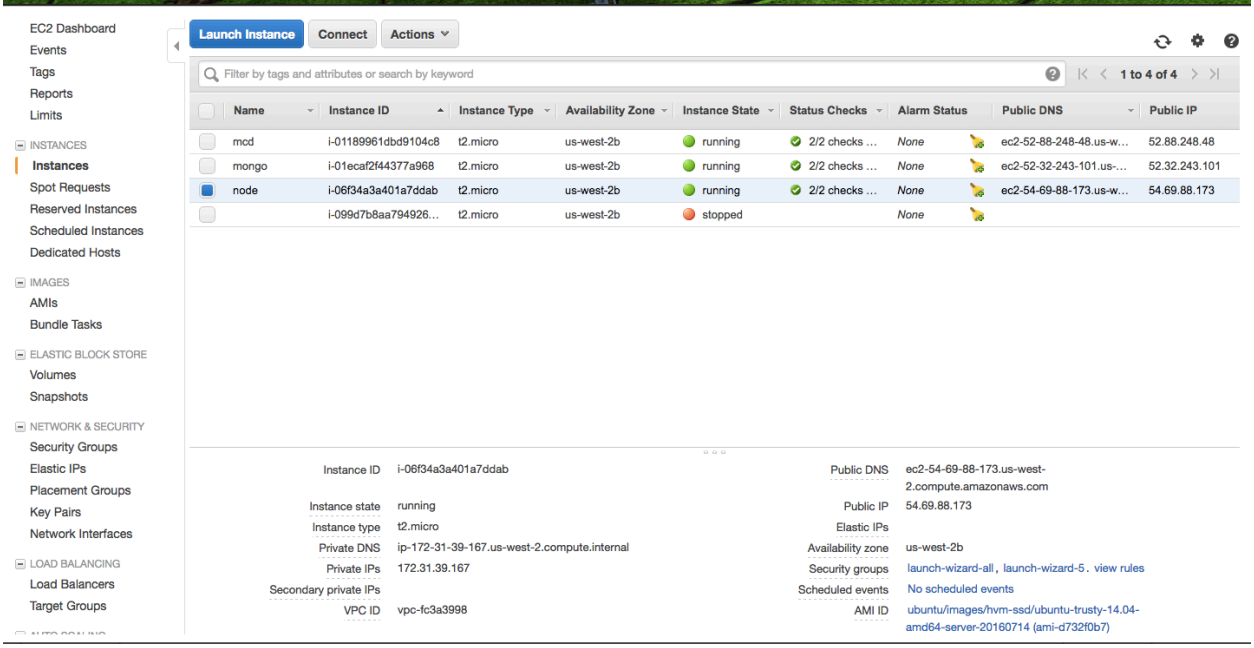
Student Athlete Survey
The current survey has ended


ec2-54-69-88-173.us-west-2.compute.amazonaws.com:8080/summary/57e01c00c73be20e0549c32d
Apps food study fun learn wiki study resource to search job example tool course
On average, how many hours a day do you dedicate to your sport?
Less than 1
1-2
(1/1)
2-3
3-4
More than 4
On average, how many hours a day do you dedicate to academics outside of the classroom?
Less than 1
1-2
2-3
(1/1)
3-4


ec2-54-69-88-173.us-west-2.compute.amazonaws.com:8080/admin#
Apps food study fun learn wiki study resource to search job example tool course
Student Athlete Surveys
Log Out
Name
Status
FINISHED
Results
Create



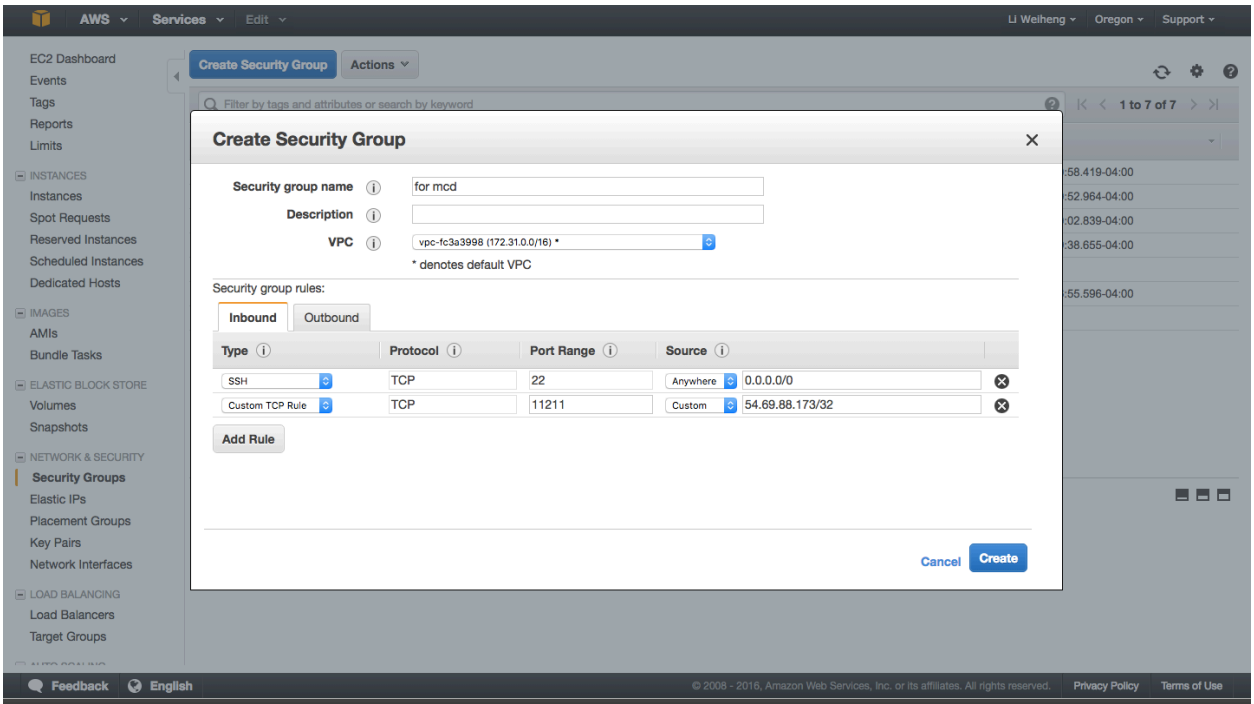



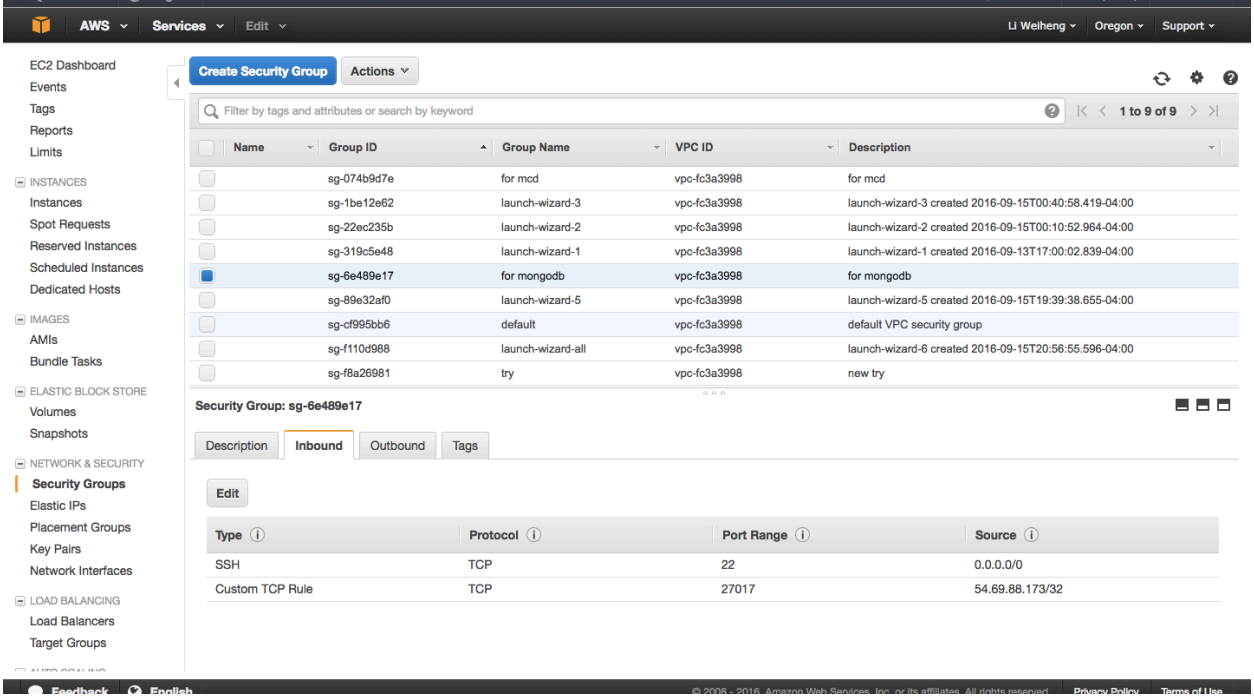

3.

mcd IP: 52.88.248.48

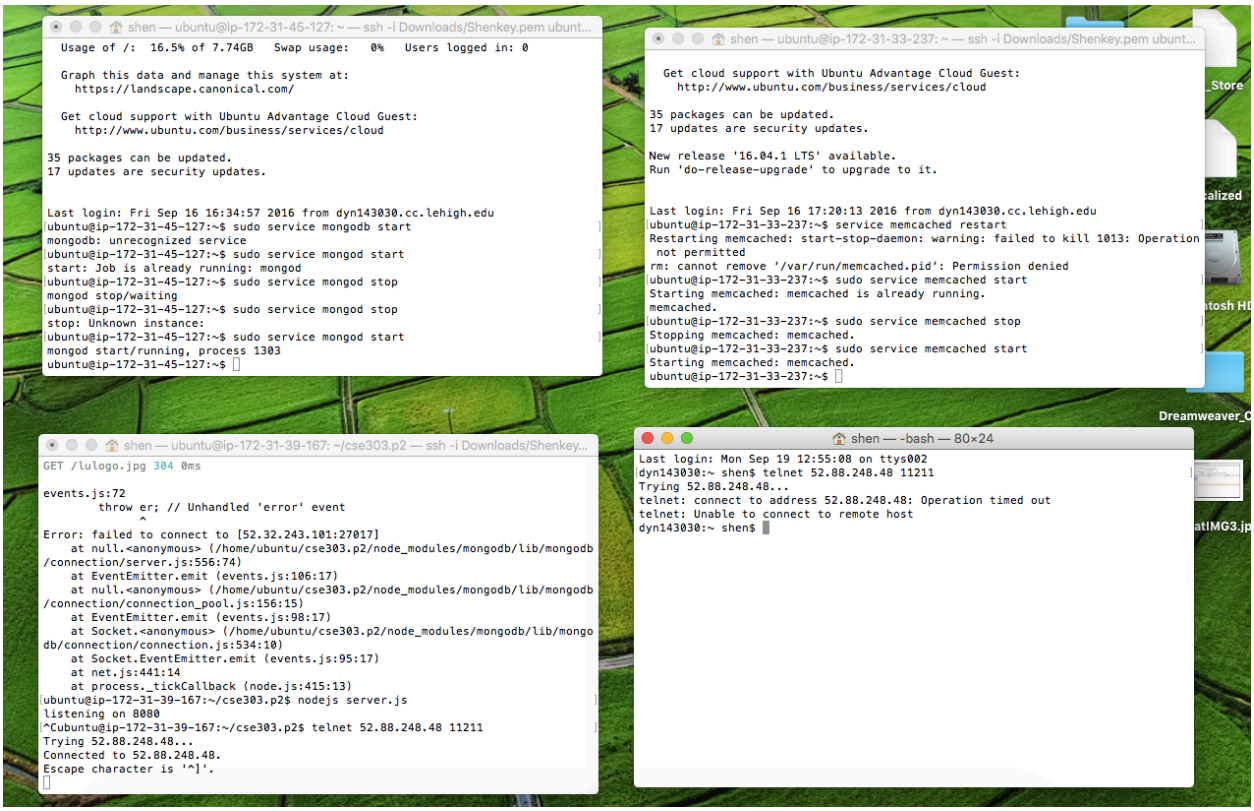
mongo IP: 52.32.243.101

node IP: 54.69.88.173

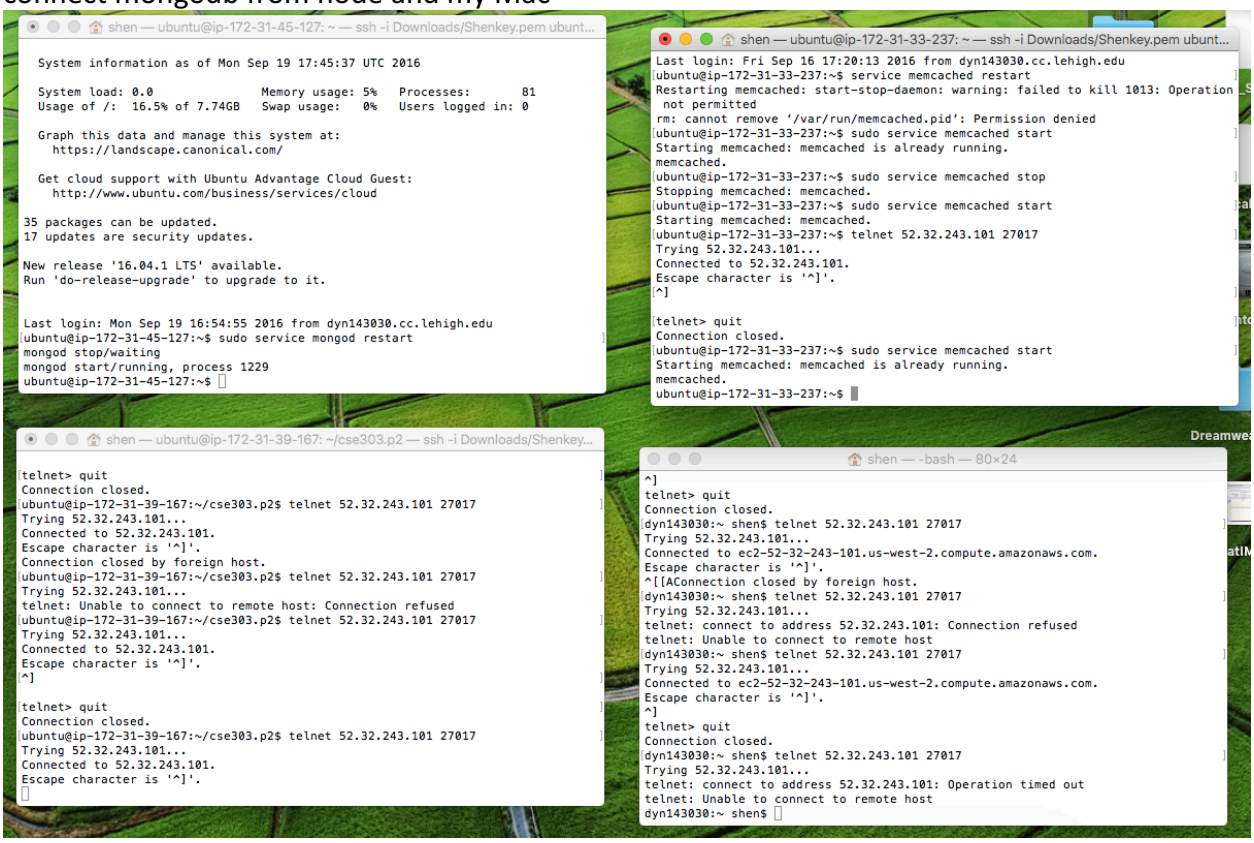


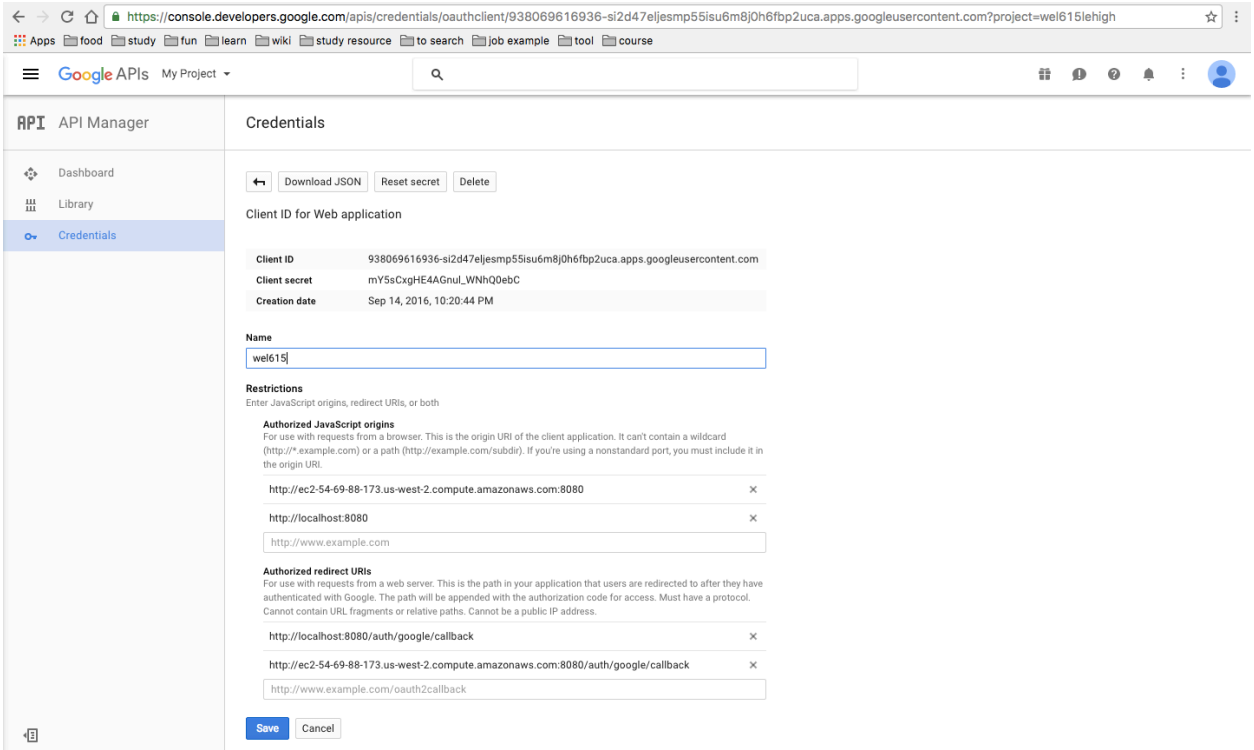




connect memcached from node and my Mac




connect mongodb from node and my Mac






Second half

1.

Benefit of MLabs:

MLabs will take care of everything related to your DB operation like regular data backup, scaling, replication, maintaining clusters etc. It guarantees high data and server availability. Also it takes responsibility of disaster recovery and your data. If you don't have a talented skill on maintain the server, you can use MLabs.

drawbacks:

You have to pay money for those company to get better service. You can't get nitty-gritty with the server through operation.

2.

Yes, it is a problem. The network delay may make Mongodb server can't collect the latest survey result before administrator gets the summary information from Mongodb server. Also, if one survey page fail to refresh in the explorer, when you press one item after one question has been closed, it still can send survey information which would change the survey result.

3.

The second factor, Dependencies, implemented well in our app:

If you're building an application that is dependent on a number of NPM modules, you can specify them in your package.json file. By doing so, you checkout your project refresh and get your dependencies sorted out easily by using *npm install*. This make dependencies explicit and isolated.

4.
The fifth factor, strictly separate build and run stages. The twelve-factor app uses strict separation between the build, release, and run stages. It is impossible to make changes to the code at runtime, since there is no way to propagate those changes back to the build stage.
In this app, three stage is not strictly separated. No control of version, no using release management tools, no unique release ID, and we can even modify the code when the app is running.

5.
Yes, it is solvable. When we get one post from user page, we can compare the id of question with the current question in the session. If they are same, then we can store the answer in the database.

6.
I would use *request.connection.remoteAddress* to get the user's IP, and store it in Mongodb. If such IP come again, I would forbid the second beginning survey of the same user.
Yes, it is.

7.
When outputting summary for the first time, we can store the question and corresponding count of each option in Memcached. Next time when we want to get summary, no need to count the number of answered options again.

8.
You can't install some popular operating system, such as Ubuntu, Windows. You can only use those Heroku does it for you, which means you may difficult to find tutorials on Website.
You can't increase RAM, storage, or CPU performance when the app develops in the future. No other services can be run on dynos. Dynos are strictly for application processes. Databases, background workers, and other services usually cost extra through Heroku's add-ons or third party services, which may be an obstruction for app to grow and adding new function.

9.
Heroku offer Paas I.e. a Platform as a Service. PaaS gives you an environment where you just push code and some basic configuration and get a running application. You can deploy our app by simply Pushing your code into git repo provided by Heroku. This is very convenient.