# DATABASE-DRIVEN WEB APPLICATION INTRODUCTION

## 1. The Handout is available:

http://www2.cs.arizona.edu/classes/cs460/spring17/prog04.pdf

- Some Highlights:
- 1) There are three due dates for this assignment:

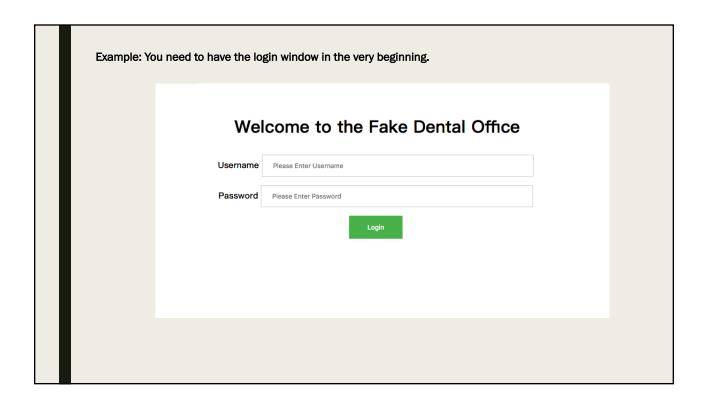
Team Members: April 19th, 2017, at the beginning of class. (URL: https://goo.gl/ElciRl)

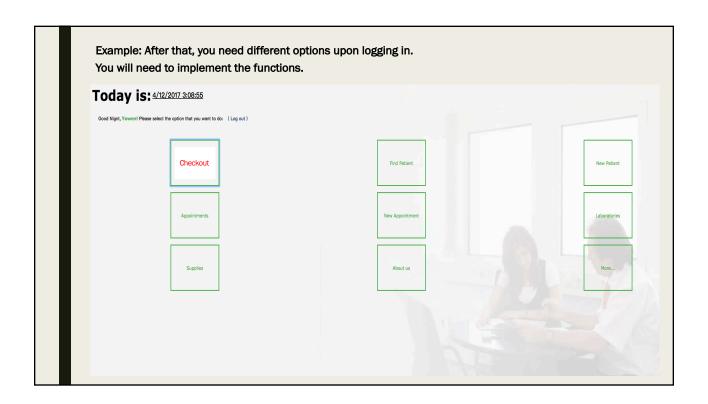
E-R Diagram: April 24<sup>th</sup>, 2017, at the beginning of class Final Product: May 1<sup>st</sup>, 2017, at the beginning of class

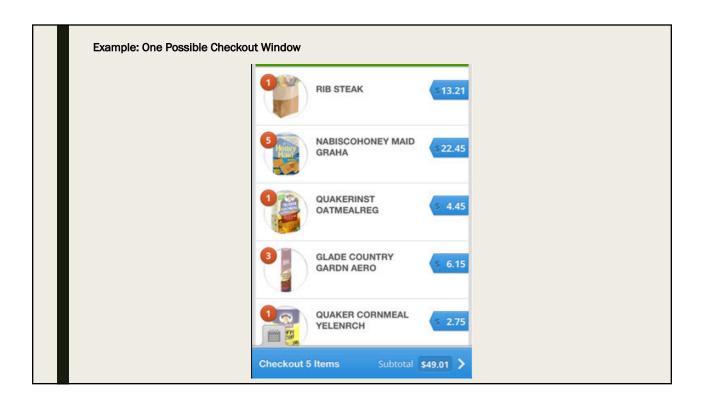
- 2) Application Domain. (In the Spec., check the models in the next page)
- 3) Required Functionalities:
  - Record insertion/deletion/update;
- Record query: Your application should support querying your database via the web interface for the problem description given above. You are required to implement at least five different queries, each of your own design, but with the following restrictions: At least one must be constructed using at least one piece of information gathered from the user. At least one must involve at least two relations. And, there should NO trivial queries (for example, simply selecting everything from a table); your queries should be constructed to answer questions that real users would be expected to ask.
- 4) Team Size: 1- 4 people per group.
- 5) Late Days: Late days can be used on this assignment, but only on the third due date.

Late Days =  $\left[\frac{Total\ Remaining\ Late\ Days}{\#\ of\ members}\right]$ 

6) For details, please check the handout.







# 2. Where to Find the Resource to Start: -/home/cs460/spring17/2017p4/ | yawenchen@lectura:/home/cs460/spring17/2017p4\$ ls | HowTo.txt tomcat | yawenchen@lectura:/home/cs460/spring17/2017p4\$ |

# 3. How to Run the Demo:

First of all, you have two choices to see the websites in the web browser when you don't have the access to use the lecture.cs.arizona.edu:

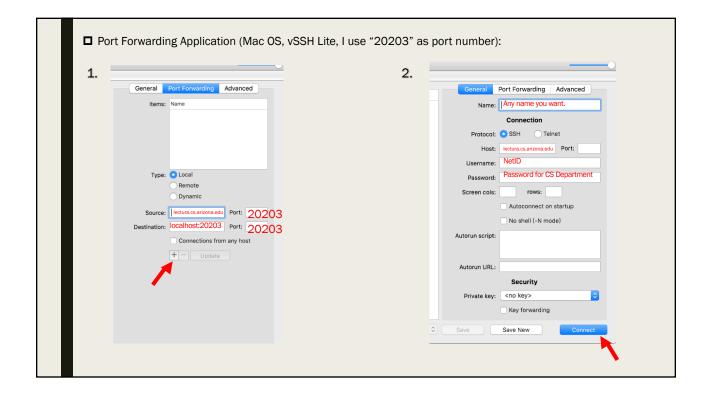
- Port Forwarding
- · Remote Access
  - > URL: http://faq.cs.arizona.edu/index.php?action=artikel&cat=4&id=15&artlang=en&highlight=remote+access
  - > You can learn it by yourself.
- We will introduce the port forwarding here to run the demo.

## 3. How to Run the Demo:

In addition, read the HowTo.txt carefully.

- Some Highlights in HowTo.txt:
  - □ Copy the tomcat, HowTo.txt from /home/cs460/spring17/2017p4/ to your directory;
  - Edit the server.xml file in your conf subdirectory to set the port numbers for your tomcat server:
    - ➤ Port numbers have to be chosen carefully. If a port is in use by another process then the server will not be able to start. I suggest using the adding the last 4 digits of your CSID to 10000 and 20000 respectively to obtain your port numbers <last four digits of CSID> + 10000 for the last 'port=' setting and<last four digits of CSID> + 20000
  - Before you try to start/shutdown your tomcat, you should make sure the following environment variables are set:
    - export JAVA\_HOME=/usr/local/jdk
    - > export CATALINA\_HOME=/home/username/tomcat/





fter testing,

4. Now, Let's See the Demo:	

5. Questions?