**Network Directory Services Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cloud Systems (GAE Exploration)**

**Learning activity summary**: The goal of this activity is to get you introduced to command line tools, such as ‘gcloud’ or the Google Cloud SDK, which allows you to interact with cloud-based services that companies like Google provides.

**Section 1: Download and install Google Cloud SDK.** This will be referred to as *gcloud* later in the steps.

**Section 2: Verify installation was successful.** Run the following command: *gcloud version* and report the results you see below:

**Section 3: Explore the CLI a bit more.** Find the command you would use to list all regions supported by GAE. Write it down below:

**Section 4: Navigate to the Google Console** (<http://console.cloud.google.com)>, login if necessary, and create a new project using the following naming convention: *ndslastname* where lastname matches yours.

**Section 5: Authenticate gcloud in the terminal.** Run the following command: *gcloud auth login* and follow the prompts within the web browser. Also, be sure to pay close attention to anything it asks you to do in the terminal results/instructions.

**Section 6: Getting the example web application source code.** The example code you will use is located at <http://github.com/mickelsonm/ndsmickelson>. Obtain this example project and be sure to change the name within all the files from *ndsmickelson* to your project name.

**Section 7: Deploying the web application.** While in the directory, run the following command: *gcloud app deploy .* Make a few notes on what you see happen:

**Section 8: Navigate to the hosted project** (ex. *gcloud app browse* or navigate in a web browser manually to http://ndslastname.appspot.com)

**Section 9: Make some changes to the template**. Note what you changed below and redeploy the application to GAE.

**Section 10: Refresh the page in the browser.** Do you see the changes you made? Y/N

**Section 11: Done!** Show the instructor what you changed and get the sign-off below.

**Instructor signoff: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**