**Evaluation System Installation Instructions**

**Required Programs for the System to Run:**

- Python 3.6

- Must be installed in PATH; i.e. accessible from the terminal

- Django 2.0 Python Web Framework

- MySQL 5.7

**Steps:**

**1.**

A database must be created manually using the MySQL interactive console.

- Both a user and a password must be created this way for the system to access the database

**2.**

Open the “settings.py” file and go to the DATABASES setting.

- This file is found in the inner “eval project” folder

**3.**

Enter the appropriate fields as configured on your computer.

- We have already configured the program to use MySQL, so the necessary steps to change are:

- the database name, ‘NAME’

- the database user, ‘USER’

- the user’s password ‘PASSWORD’

- the host of the database server, ‘HOST’

- the port number ‘PORT’

- The example below shows the name of the database as 'class\_evaluations', the user as 'evalproject', the password as 'eval123', and the database server as running on localhost, port 3306:

DATABASES = {  
 'default': {  
 'ENGINE': 'django.db.backends.mysql',  
 'NAME': 'class\_evaluations',  
 'USER': 'evalproject',  
 'PASSWORD': 'eval123',  
 'HOST': 'localhost', # Or an IP Address that your DB is hosted on  
 'PORT': '3306',  
 }  
}

**4.**

Use the terminal to navigate to the outer ‘evalproject’ folder.

- This is the folder where ‘manage.py’ file is located

**5.**

Run the following commands to update the database with the correct tables:

python manage.py makemigrations

python manage.py migrate

- If using a mac, replace ‘python’ with ‘python3’

**7.**

To create an administrator account, run the following command in the ‘evalproject’ folder:

python manage.py createsuperuser

-You will be then prompted to enter the relevant information

-If on a mac, again replace ‘python’ with ‘python3’

**8.**

To start the web server, use the following command:

python manage.py runserver

-If on a mac, again replace ‘python’ with ‘python3’

**9.**

In order for others to access the system, use the following command:

python manage.py runserver 0.0.0.0:8000

- Make sure that in settings.py, the ALLOWED\_HOSTS setting is set to allow any host, not just localhost

- This is displayed as :

ALLOWED\_HOSTS = ['\*']

**10.**

For other computers to connect, the instructions should be the same, but with 127.0.0.1 with that computer’s IP address

**11.**

To log into the admin panel when the system is running, navigate to 127.0.0.1:8000/admin

-This will take you to the built-in Django admin panel. You will be prompted to log in using your admin account.

-When logged in, you can manage your database information using a graphical interface.

**NOTES**

In order for each student evaluation, as well as each action that the professor performs on course or session information (which means, adding/editing/deleting courses or evaluation sessions) to be contained inside of a database transaction, the database settings have the following setting added:

'ATOMIC\_REQUESTS': True

You should find this in our settings.py file which we submitted. This setting wraps each HttpRequest inside of a transaction (in other words, each "function" that is performed by the business logic, is wrapped inside of a transaction). Therefore, if only part of the business logic is executed until an error is found, the data will not be saved to the database.

It is important to note that the project uses the "Repeatable Read" isolation level, which is MySQL's default behavior. We feel that this is sufficient for the purposes of this application.