

# ECE444-Lab-Week3: Flask Web Development 2

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**Lab1 (Thur)** Akshay Kaway

**Goal:** After this recitation, the students should be able implement an interactive helloworld example, and understand the basics of Templates, Web Form and connecting to Databases.

**Material:** "Flask Web Development: Developing Web Applications with Python" from O'Reilly, available in UofT library and Quercus/Files/Book **(Chapter 3-5)**

**Plan:** Students read the **Chapter 3-5** and replay the examples, TA host the Q&A session.

**Requirement & Evaluation:** Students should follow the 3 Activities. Once you are done, please submit your GitHub repo url in Assignment/Lab3. Your grade is depending on the completeness of the task.

In your repo, we expect to see 3 sections (use markdown):

Activity 1: a screenshot (plus corresponding commits/branch).

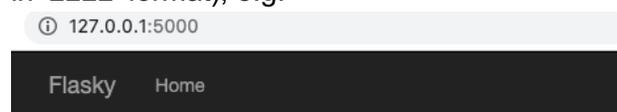
Activity 2: a series of screenshots (plus corresponding commits/branch).

Activity 3: answer to the question.

## Activity 1: Replay and modify example in Chapter 3 (2 point)

- Create an empty public repository, name format: ECE444-F2020-Lab3
- Create a readme file with your name and mention: this repo is a clone of <https://github.com/miguelgrinberg/flasky>
- Follow Chapter 3 examples and print "Hello [your name]".

**Submission:** A screen shot showing that you have successfully finish the task (with a timestamp in 'LLLL' format), e.g.



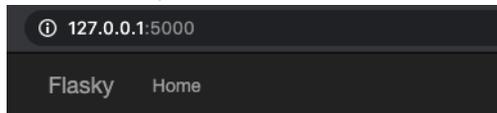
## Hello Shurui!

The local date and time is Saturday, September 26, 2020 11:34 PM.

That was 3 minutes ago.

## Activity 2: Replay and modify example in Chapter 4 (2 point)

- Reproduce example 4-7 in your repo, commit the code with reasonable commit message.
- Add one more field for filling in email address. Please check if the email address is an UofT account ('utoronto' is a substring of the email address). If the email is an UofT address, after submitting, the browser display the user name and the email, otherwise, remind the user to fill in a UofT email (see screenshot below).
- Submit a commit.
- Run the project and make a screenshot.



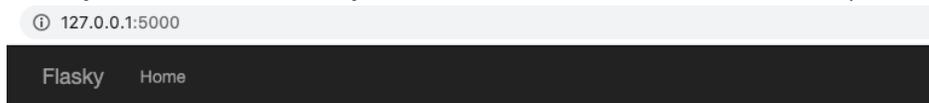
# Hello, Stranger!

What is your name?

What is your UofT Email address?

Submit

- Fill in your First name and your UofT email address, click submit (make a screenshot)



# Hello, Shurui!

## Your UofT email is shuruiz@ece.utoronto.ca

What is your name?

What is your UofT Email address?

Submit

- Fill in your First name and Last name in the 1st field, and fill in your first name in the 2nd field, click submit. You will receive an error message (make a screenshot)

What is your name?

Shurui Zhou

What is your UofT Email address?

shurui|

Submit



Please include an '@' in the email address. 'shurui' is missing an '@'.

- Fill in your First name and Last name in the 1st field, and fill in your **NON UofT email** in the 2nd field, click submit. (make a screenshot)

Looks like you have changed your name!

Looks like you have changed your email!

**Hello, Shurui Zhou!**  
**Please use your UofT email.**

What is your name?

What is your UofT Email address?

Submit

- Push to GitHub

**Activity 3 (1 point): Briefly summarize the difference between SQL or NoSQL database.**