

# ECE 2524 - Project 3

## Supplement for Project Topics & More

This supplement is to provide some guidelines that can help you select a proper topic for your Project 3. Since we have learned many UNIX commands, rules, functions, and shell scripts, I think it will make more sense to develop something that is related with what we have learned and done for the course work.

Many students proposed to develop some well-known games, calculators or other known applications. Unfortunately, however, those are not acceptable for this project. First of all, the python code for such applications are widely available on the Internet. Also, they are not so relevant to the UNIX course work.

Here are my suggestions for the topics for you to select which will be more relevant to the UNIX course work. Using python scripting or python programming, you can

1. Develop a game that can perform a set of meaningful (not so trivial) UNIX system administration work interactively upon receiving the use's requests
2. Create a similar file tree which you created using B shell script for Project 2
3. Create an application that executes a group of b-shell scripts which are executing a set of UNIX commands and generate the final output. The b-shell scripts can be executed in a way that the output of one b-shell script becomes the input to another b-shell script.
4. Write a program that reads the input file and search the words, sentences, or any other features in the input file that satisfy the conditions provided by the user or given as the command line arguments
5. You can refer to the following links to get some ideas.

<https://docs.python.org/3/library/os.html>

<https://www.pythonforbeginners.com/os/pythons-os-module>

<https://www.pythonforbeginners.com/systems-programming/python-system-administration>

Based on these suggestions, you can develop some interesting ideas which are relevant to the UNIX course work. What kind of UNIX commands, rules, and functions you will include in your project and how to include them are up to you. You can be as much creative as you like.

### **Submission:**

**Everyone should re-submit the Project 3-1 by Wednesday Nov. 18.** The description of your project idea/topic should be detailed and substantial enough. You have to explain what you are going to develop and how to develop as detail as possible. Just providing one or two lines of simple sentence with no substantial contents are not qualified for the full credits. At least it should be one page length of MS Word file.

### **New due dates:**

**Project 3-1 (Project topic proposal, 5 pts) – Wednesday 11/18, before class time**

**Project 3-2 (Complete development, 95pts) – Saturday 12/5, 11:59PM**

### **IMPORTANT:**

**Everyone should resubmit the proposal by Wednesday 11/18 before class time. You may able to hold the points you earned for the first submission, or loose some points depending on the quality of your work. Remember it is a 5 points work and there should be enough substantial quality in the work.**

**Those who did not submit the 3-1 by due date will be given a second chance to submit the proposal by Wednesday 11/18, but with the penalty of 2 points deduction. BUT, THIS WILL BE THE ONE LAST TIME LATE WORK ACCEPTANCE FOR ANY ASSIGNMENT till the end of the semester!**