**Outline**

Sign-up for GitHub and begin using this project management tool. Review terms of service and identify the main features of a Content Management System. Create projects in the cloud for the course, and initialize a synchronize local repositories for these projects.

**Objectives**

* Use standard backup procedures to back up user files.
* Use software tools (e.g., email, wikis, blogs, task lists, bulletin boards, spreadsheets, shared calendars) to plan and track activities during a software development project;
* Use project management tools (e.g., Gantt chart, PERT chart) and time management tools (e.g., organizer, calendar) to help develop a software project;

**Materials**

* N/A.

**Level 1: Sign-up for GitHub**

GitHub will be used to share course files in a similar way to MyClass or D2L. The reason we are using GitHub is because this is the tool preferred by many software developers and is the most common way to share computer code on the internet.

1. Go to: <https://github.com/>
2. Review the GitHub terms of service.
3. Review the GitHub privacy policy.
4. Create an account on GitHub.com.
5. Locate user “Greg5519” (Mr. Nestor) and the course project repository called “ICS3C0” or “ICS2O0”.
6. Locate this lesson file (Word Doc) in the directory folder titled “Modules D - Development Environment”.
7. Download this lesson file to your student folder on the LASS network drive so that you can complete the rest of the lesson.

**Level 2: Create Your Personal GitHub Repository**

Your personal GitHub repository will be used to store and manage your work for this course. You should save partially completed work in your repository and you can update it at any time from school or at home. GitHub automatically keeps track of updates to your files. You should NEVER make multiple VERSION COPIES of your work files.

Your repository should be shared with your teacher and with other members of your work group.

Work will be submitted (handed in) by uploading it to your repository and by telling your teacher (by email) that it is complete. ONLY work uploaded to your repository will be considered handed in and will be marked.

1. Sign in to: <https://help.github.com/>
2. Create a new project repository for your ICS module work.
   1. Give your repository a meaningful name like “MyICSWork”
   2. Make sure to select “Include a ReadMe file”
3. Email Mr. Nestor ([gregory.nestor@peelsb.com](mailto:gregory.nestor@peelsb.com)) the following information:
   1. Your Name
   2. The link to your repository

**Level 3: Terms of Service Agreement**

Research and answer the following questions by saving your work in a Word document as follows:

1. Make sure your file name has a descriptive format such as   
   “Module D1 Level3 Answers.docx”.
2. Create a folder titled “Module D Answers” in your GitHub repository
3. Upload your answer file to this folder in your repository
4. Email Mr. Nestor ([gregory.nestor@peelsb.com](mailto:gregory.nestor@peelsb.com)) to look at your repository when you are finished. (e.g. “Mr. Nestor please look at my Module D1 Level 3 answers.”)
5. Research about “Terms of Service Agreements” and identify at least 3 main features of a terms of service agreement.
6. Review the GitHub terms of service. (<https://help.github.com/articles/github-terms-of-service/>)
   1. Are you permitted to use this software for this class? Copy and highlight the section that conforms this permission.
   2. What rights do you give up by using this software?
   3. What limitations do you have when using this software?
7. Research about “Privacy Policy Agreements” and identify at least 3 main features of a privacy policy.
8. Review the GitHub privacy policy. (<https://help.github.com/articles/github-privacy-statement/>)
   1. What information does GitHub collect and track?
   2. How does GitHub share your information? Copy and highlight the section that talks about information sharing.
   3. How does GitHub communicate with you?
9. Explain how a “Privacy Policy” is different from a “Terms of Service” agreement.

**Level 4: Version Control Systems (VCS)**

Research and answer the following questions by saving your work in a Word document as follows:

1. Make sure your file name has a descriptive format such as   
   “Module D1 Level4 Answers.docx”.
2. Upload your answer file to a folder titled “Module D Answers” in your GitHub repository
3. Email Mr. Nestor ([gregory.nestor@peelsb.com](mailto:gregory.nestor@peelsb.com)) to look at your repository when you are finished. (e.g. “Mr. Nestor please look at my Module D1 Level 4 answers.”)

Suggested web resources:

* <https://www.atlassian.com/git/tutorials/what-is-version-control>
* <https://www.git-tower.com/learn/git/ebook/en/command-line/basics/why-use-version-control>

1. Research about Version Control Systems (VCS) for software development and list at least 4 main features of a VCS.
2. Explain why professional software developers use a VCS and why it would be helpful in this course.
3. Explain the term “Collaboration” and how GitHub will allow you to collaborate with your teacher and other members of your work group.
4. Explain the term “Backup” and how GitHub will help you to backup your work files.
5. Explain the term “Version Control” and how GitHub version control will be useful in this course.
6. Explain the term “Distributed Access” and how GitHub distributed access will be useful in this course.