**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.

DONE

**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

DONE

**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.

The Terms of Service Agreements is used by companies for legal purposes and these companies would usually provide software or services. In the Terms of Services Agreement, the companies can enforce the terms by not giving you service. Something else is that you must agree to the terms, so you can use the service that you want to use. Also, in the Terms of Service and Agreement, the longest section in it is the user rights and responsibilities.

1. 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.

I am permitted to use the software for this class because I am over the age of 13 which is the minimum age that you must be, to be able to use the GitHub.

In this section of the Terms of Service Agreements, it would tell you the age that you need to be to use GitHub.

“You must be age 13 or older. While we are thrilled to see brilliant young coders get excited by learning to program, we must comply with United States law. GitHub does not target our Service to children under 13, and we do not permit any Users under 13 on our Service. If we learn of any User under the age of 13, we will terminate that User’s account immediately. If you are a resident of a country outside the United States, your country’s minimum age may be older; in such a case, you are responsible for complying with your country’s laws”.

* 1. What rights do you give up by using this software?

In GitHub you cannot use the website to violate any laws which would include copyright, trademark laws, export control laws or any other laws that are in your jurisdiction. Also, you are responsible for making sure that you use GitHub in compliance with laws and any applicable regulations.

* 1. What limitations do you have when using this software?

When you use GitHub you cannot reproduce, duplicate, copy, sell, resell or exploit any part of this service without GitHub’s express written permission. Something else is that you cannot disrupt or tamper with GitHub’s servers. Another thing is that if you are using more bandwidth than other GitHub customers then they would suspend your account or throttle your file hosting until you can reduce your bandwidth consumption. In GitHub there are other things that you cannot so such as you cannot impersonate anyone, post other people’s personal information without consent and have anything that would have malware or exploits on GitHub.

1. Research about “Privacy Policy Agreements” and identify at least 3 main features of a privacy policy.
2. Review the GitHub privacy policy. (<https://help.github.com/articles/github-privacy-statement/>)

The Privacy Policy Agreements is a legal statement that tells business owners what to do with user’s personal data that is collected and why they would collect it. The personal information can be anything that can identify a person which can be a name, email address, birthdate, IP address and other things. The people collecting the data must make it clear why they are using the personal information before it is gathered. Another thing about the Privacy Policy is that users should be able to contest the accuracy of the personal data that is collected.

* 1. What information does GitHub collect and track?

The information that GitHub would collect is the browser type, language preference, referring site, additional websites requested, and the date and time of the request. They would collect this information to better understand how people would use GitHub and to monitor the security of the website. For GitHub you can turn on “Do Not Tack” in your browser, so GitHub cannot collect information. Also, GitHub would not let third party services to track you on their website.

* 1. How does GitHub share your information? Copy and highlight the section that talks about information sharing.

GitHub would not share, sell, rent, trade peoples personal information with third parties for advertisements. However, GitHub would send information which is not personal identifying information with others to show how people would use GitHub.

* 1. How does GitHub communicate with you?

GitHub would use your email address to talk to you, but you have to say it’s ok before GitHub can do this.

1. Explain how a “Privacy Policy” is different from a “Terms of Service” agreement.

The difference between the Privacy Policy and Terms of Service agreements is that in the Privacy Policy Agreement, it would collect information form users. While the Terms of Service Agreement would give you the terms, conditions and requirements for using a website or any other kind of service.

**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.

The Version Control Systems are software tools that would help a software team make changes to source code over time. In VCS there is software that would track every modification that you did to the code and be saved in a data base. Now, if you made a mistake, you can look back at the old code which can help you fix the mistake. Another thing that Version Control would do is that it would protect source code from something bad happening to it and this is good because source code is a repository for developers. Also, version control can help people solve problems such as tracking the changes that each person would make and prevent work conflicting with other work. Something else is that version control would work on any operating system which is good for developers because they can use version control on the operating system that they would prefer.

1. Explain why professional software developers use a VCS and why it would be helpful in this course.  
   Professional software developers would use a VCS because it is risky to develop stuff without VCS. Version control would allow developers to work faster and be more efficient. Version Control Systems would be useful in this course because it would allow us to be able to track all our work. Also, if we made a mistake in code we would be able to look at the old code that was made and try to fix the mistake.

Explain the term “Collaboration” and how GitHub will allow you to collaborate with your teacher and other members of your work group.

1. Explain the term “Backup” and how GitHub will help you to backup your work files.  
   teacher and other members of your work group.  
   The term “Collaboration” would mean that you are working with someone or a group of people. GitHub would allow, you to make a repository and, in the repository, it would allow to view work that is upload on it. For example, if you have a group of people working on something, a repository would allow them to view the work and make changes to it.
2. Explain the term “Version Control” and how GitHub version control will be useful in this course.

Explain the term “Backup” and how GitHub will help you to backup your work files.  
The term “Backup” would mean you are saving an original copy of your files so, if some of your files gets corrupted or deleted, you would have another copy of the files to use. The way that GitHub can help backup your files is that in GitHub you can clone your repository, and this would allow you to have all your files saved.

1. Explain the term “Distributed Access” and how GitHub distributed access will be useful in this course.

The term “Version Control” would be how it would keep the history of your files and keeping the files safe. GitHub’s version control will be useful in this course because when we would upload our files on GitHub, we would want to make sure that the files that we upload would be safe and easy to access. For example, in GitHub it would tell you the last thing you did in your repository which can be that you uploaded a file, deleted a file or anything else that you did.