**Outline**

Sign-up for GitHub and begin using this project management tool. Review terms of service, 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;

**Prerequisites**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Prerequisite Module(s)** | **Level** | **Student Initial** | **Teacher Initial** | **Date** |
| Mod A.1 Simon Icebreaker | Level 3 |  |  |  |
| Mod B.2 Arduino Basic Blink | Level 3 |  |  |  |

**Materials**

* N/A.

**Level 0: Terms of Service**

Suggested web resource: <https://github.com/>

1. Review the GitHub terms of service.
   1. Are you permitted to use this software for this class? Copy and highlight the section that conforms this permission.

A human must create your account; you must be 13 or over; you must provide a valid email address; and you may not have more than one free account. You alone are responsible for your account and anything that happens while you are signed in to or using your account. You are responsible for keeping your account secure.

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

Your use of the Website and Service must not violate any applicable laws, including copyright or trademark laws, export control laws, or other laws in your jurisdiction. You are responsible for making sure that your use of the Service is in compliance with laws and any applicable regulations.

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

You agree not to reproduce, duplicate, copy, sell, resell or exploit any portion of the Service, use of the Service, or access to the Service without GitHub's express written permission.

1. Review the GitHub privacy policy.
   1. What information does GitHub collect and track?

They collect your information only with your consent; we only collect the minimum amount of personal information that is necessary to fulfill the purpose of your interaction with us; we don't sell it to third parties; and we only use it as this Privacy Statement describes. If you're visiting us from the EU: we comply with the Privacy Shield framework.

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

We do not share, sell, rent, or trade User Personal Information with third parties for their commercial purposes.

We do not disclose User Personal Information outside GitHub, except in the situations listed in this section or in the section below on Compelled Disclosure.

We do share certain aggregated, non-personally identifying information with others about how our users, collectively, use GitHub, or how our users respond to our other offerings, such as our conferences or events. For example, we may compile statistics on the usage of open source licenses across GitHub. However, we do not sell this information to advertisers or marketers.

We do not host advertising on GitHub. We may occasionally embed content from third party sites, such as YouTube, and that content may include ads. While we try to minimize the amount of ads our embedded content contains, we can't always control what third parties show.

We may share User Personal Information with your permission, so we can perform services you have requested.

We may share User Personal Information with a limited number of third-party vendors who process it on our behalf to provide or improve our service, and who have agreed to privacy restrictions similar to our own Privacy Statement. Our vendors perform services such as payment processing, customer support ticketing, network data transmission, and other similar services. When we transfer your data to our vendors under Privacy Shield, we remain responsible for it.

We may share User Personal Information if we are involved in a merger, sale, or acquisition. If any such change of ownership happens, we will ensure that it is under terms that preserve the confidentiality of User Personal Information, and we will notify you on our website or by email before any transfer of your User Personal Information. The organization receiving any User Personal Information will have to honor any promises we have made in our Privacy Statement or in our Terms of Service.

* 1. How does GitHub communicate with you?

They will use your email address to communicate with you, if you've said that's okay, and only for the reasons you’ve said that’s okay. You have a lot of control over how your email address is used and shared on and through GitHub. You may manage your communication preferences in your user profile.

If you would like your email to remain private, even when you’re commenting on public repositories, you can create a private email address in your user profile. You can also update your local Git configuration to use your private email address. This will not change how we contact you, but it will affect how others see you.

Depending on your email settings, GitHub may occasionally send notification emails about changes in a repository you’re watching, new features, requests for feedback, important policy changes, or offer customer support. We also send marketing emails, but only with your consent. There's an unsubscribe link located at the bottom of each of the emails we send you.

Our emails might contain a pixel tag, which is a small, clear image that can tell us whether or not you have opened an email and what your IP address is. We use this pixel tag to make our email more effective for you and to make sure we’re not sending you unwanted email. If you prefer not to receive pixel tags, please opt out of marketing emails.

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

Suggested web resource: <https://github.com/>

1. Create an account on GitHub.com.
2. Locate user “Greg5519” (Mr. Nestor) and the course project repository called “ICS3C0”.
3. Download the course module files to your student folder on the network drive.

**Level 2: Create a Modules Project**

Suggested web resource: <https://help.github.com/>

1. Create a new project repository for your ICS3C0 module answers.
2. Upload your answers (i.e. Word File) to “Module A.1 Simon Icebreaker” to the repository
   1. Select your repository
   2. Select the “Code <>” tab
   3. Select the “Upload Files” tab
   4. Follow instructions
3. Upload your answers for “Level 0” of this module to the repository
4. Commit your changes to the repository
   1. Add a comment for the commit
   2. Click on “Commit Changes”
5. Email Mr. Nestor ([Gregory.nestor@peelsb.com](mailto:Gregory.nestor@peelsb.com)) the following information:
   1. Your Name
   2. Your email address (used for GitHub)
   3. Your GitHub user ID
   4. The link to your repository

**Level 3: GitHub Desktop**

Suggested web resource: <https://desktop.github.com/>

Note: Installation and activation of GitHub Desktop may be required

1. Access GitHub Desktop and create a local repository folder on your LASS network drive.
2. Clone your “Modules Repository” from GitHub on the web.
3. Synchronize your repository using GitHub Desktop.
4. Verify that your local files have been synchronized with GitHub on the web.

**Level 4: Arduino Blink Repository**

Suggested web resource: <https://help.github.com/>

1. Create a repository for the “Module B.2 Arduino Blink” module.
2. Synchronize your local files with GitHub.
3. Verify that GitHub on the web is recorded your updates and that the program files have been synchronized.
4. Synchronize your files at the beginning and end of each period.

**Achievement Record**

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| --- | --- | --- | --- |
| **Attainment Level** | **Student Initial** | **Teacher Initial** | **Date** |
| Level 0: Terms of Service |  |  |  |
| Level 1: Sign-up for GitHub |  |  |  |
| Level 2: Create Blink Project |  |  |  |
| Level 3: GitHub Desktop |  |  |  |
| Level 4: Update Blink Repository |  |  |  |