Laptop and Tools Familiarization Checklist - Java

Welcome to your new Tech Elevator equipment! To ensure a solid foundation at the start of the cohort, it's important that your laptop is set up by Day 1.

This document will guide you through both initial setup and troubleshooting steps to ensure that your equipment is functioning properly during your time at Tech Elevator. This is a checklist designed to familiarize yourself with your new PC and some of the online tools we will use at Tech Elevator.

All Tech Elevator work must be completed on this laptop. We cannot support coursework performed on student owned equipment.

Here is a helpful article if you are a Mac user and want a quick primer on using Windows https://www.pcmag.com/how-to/15-windows-10-tips-for-mac-users.

Log In: *Do not* add or modify user accounts or passwords.

Log in with the credentials you were provided (all laptop passwords are set to **techelevator1** by default for the ***Student*** user account) and complete the following checklist.

Software tools

1. **Find your Integrated Development Environment: IntelliJ**

	***What is the IntelliJ IDEA? (Java)*** This is the primary tool you'll use to write Java code. Find the IntelliJ IDEA on your workstation, run it, and verify that it starts without issue.

2. **Find your Database Management Software: pgAdmin 4**

	***What is pgAdmin? (Java)*** This is a tool used to query databases. You'll start using this in the database module. Find pgAdmin on your laptop, run it, and verify that it starts without issue.

3. **Launch your shell Application: Windows Terminal (Windows)**

	***What is Windows Terminal? (Windows)*** Windows Terminal is a command-line tool that allows you to interact with your laptop or a remote computer by typing commands. Find Windows Terminal on your laptop, run it, and verify that it starts without issue.

4. **Find Visual Studio Code (VS Code)**

	***What is VS Code?*** VS Code is a powerful text editor. You'll use it primarily for writing HTML, CSS, and JavaScript during the web application module. Find VS Code on your laptop, run it, and verify that it starts without issue.

5. **Find Postman**

	***What is Postman?*** Postman is a tool used to interact with web APIs. You'll start using this in Module 3. Find Postman on your laptop, run it and verify that it starts without issue.

6. **Zoom**

	**What is Zoom?** Zoom is a teleconference platform. All Tech Elevator hosted sessions will be hosted and recorded on Zoom. You'll need to create a Zoom Account https://zoom.us/ . Find the Zoom client on your laptop, run it, and verify that it starts without issue.

Online tools

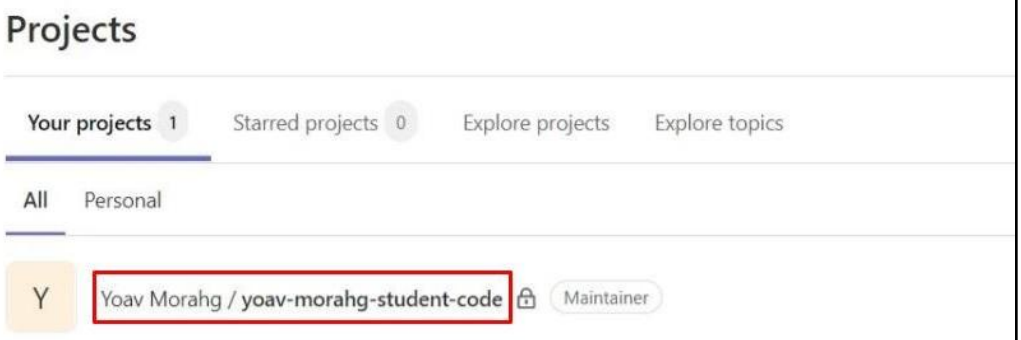
7. **GitLab:**

	***What is GitLab?*** GitLab is a web-based version control service that hosts the code we work on and

distributes it to Tech Elevator students. You will upload your completed homework assignments to GitLab using git.

8. You should have received an email from GitLab stating that you've been granted access to a GitLab repository. **Accept the invite**. If your invitation has expired, contact your instructor to get a new one.

9. Log in to GitLab with the account you created for the prework. You'll see a project that contains your name and the words student code. Click on it.



10. Open your shell application (Windows Terminal, in Software Tools #3, above).

11. Navigate to the workspace folder by typing `cd ~/workspace`

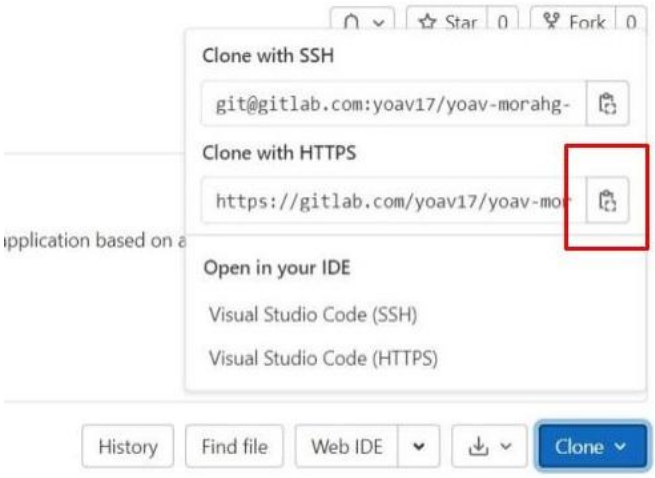
    NOTE: You will most likely get an error that looks similar to this:

    ```
    bash: cd: /c/Users/Student/workspace: No such file or directory
    ```

    If you do, type this: `mkdir ~/workspace` command and hit enter, now try the `cd ~/workspace` command again. Your prompt should now look something like this:

    ```
    Student@P104F008 MSYS ~/workspace
    $
    ```

12. Click the blue **Clone** button, which will bring up a popup like the one below (see image on next page). Click on the clipboard icon to the right of the **Clone with HTTPS** field. Now, go back to your Windows Terminal window, type **`git clone`** followed by a space and then paste what was copied to the clipboard, and then press enter.
    *** Please note that the traditional Ctrl+V paste command is replaced with Shift+Insert in Bash Shell ****



13. Verify that you see a message similar to this one.

```
Cloning into 'andychongsam'...
remote: Counting objects: 6, done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (6/6), 1.29 KiB | 27.00 KiB/s, done.
```

14. Still within your shell application, navigate into the repository folder by typing: `cd yourname-student-code` (instead of ***yourname***, enter the name of the repository folder i.e. yoav-morahg-student-code).

    Note: If you closed your shell application by accident, enter `cd ~/workspace/yourname-student-code` instead.

15. Next, type the following command: `sh setup.sh`
    You'll be prompted to enter your *firstname lastname* and then prompted for your *email address*

```
$ sh setup.sh

Enter your name (First Last): Andy Chong
Enter your email: achongsam@gmail.com
Enter your cohort (c or java): java
Enter your bitbucket team (e.g. te-cin-cohort-4): te-remote-2007

Setting Up Global Configuration Settings
Setting up Git Editors and Tools...

Configuring Upstream...
Done.
```

16. When the previous step is finished, stay in Git BASH and type `git pull upstream main` . If you see the message "Already up to date", you are done.

17. If anything goes wrong, you may come to the **Tech Check & Meet and Greet** session before the start of the cohort (Friday September 8th, 2023 12:00-1:30PM Eastern). If you cannot attend, this process will also be reviewed briefly on the first day of class.

2. ***BootcampOS***

What is BootcampOS?
BootcampOS is the tool that will handle the online portion of your curriculum.

In BootcampOS, you will find your daily reading material, tutorials, quizzes, and exercises. You will also use BootcampOS to submit your work and view your progress and feedback.

You may access the BootcampOS Dashboard at: https://lms.techelevator.com/

3. Slack

What is Slack?
Slack is a chat platform. You can use Slack to send messages to your classmates, instructors, or Tech Elevator staff. Your instructor and pathway director also post important announcements through Slack.

Go to Slack and make sure that you can see the following channels:

In your subscribed channels, you should have the following channels:

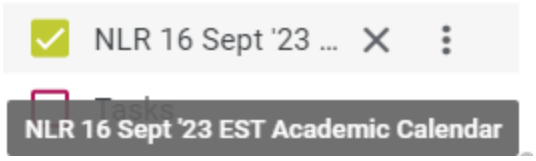
- The General Channel (nlr-ft-16-general)
- The Homework Help Channel (nlr-ft-16-homework-help)
- Your Java Classroom Channel (nlr-ft-16-***class_color***)
- The Pathway channel (nlr-ft-16-pathway)
- The Kudos channel (nlr-ft-16-culturekudos)
- The Water Cooler (nlr-ft-16-random)

Note: Channels may not have these exact names.

4. **Google Drive**

Drive	***What is Google Drive?*** Google Drive will be used to hold any assets related to your Pathway Program search. Your elevator pitch, resume, and headshots that you can use for social media or job applications will reside here. Verify that you have access to Google Drive.

5. **Google Calendar**

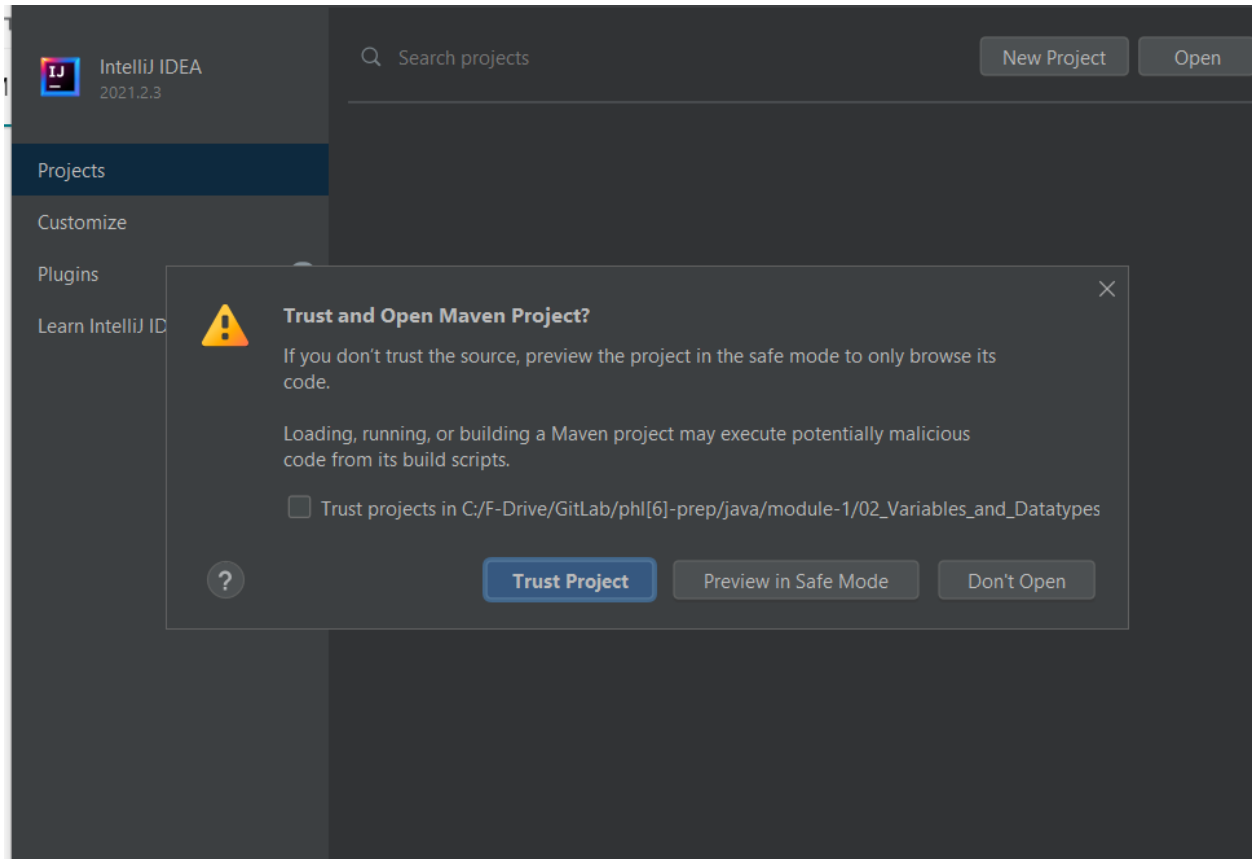
Calendar	***What do we use Google Calendar for?*** Google Calendar will be used to indicate which events you need to be aware of as a student. The entire Tech Elevator syllabus (academic and pathway) will be shared here. On any given day, you'll use this to know what is going to be covered or where you need to be. Verify you see the class syllabus calendar for your campus. 

6. **Socrative:**

	What is Socrative? Socrative is our quiz-taking platform. Each day will have a short feedback survey to assess how effective the previous day of instruction was and to give you the opportunity to note anything that wasn't clear. You may also see other surveys in Socrative. ***Your Student ID will be the email address you use for Tech Elevator.*** You will need this to sign in to Socrative. You will also need your classroom name - your instructor will provide you with those during the first day of class. ***** Socrative Use and practices will vary by instructor. Your instructor will provide you with those during the first day of class.***

THINGS TO BE AWARE OF BEFORE DAY 1

- As part of your Day 1 reading, you will be asked to open one or more projects in IntelliJ. It is possible that you will see a screen like the one below when you open the project. If you do, just go ahead and click the **`Trust Project`** button. Once you have done that, you can follow the rest of the directions in the reading. You may NOT see this, but in case you do, just click the **`Trust Project`** button.



- There are references to function keys (such as **`F2`**) in some of the reading materials. Be aware that some keyboards require you to hold another key while you hold down the function keys to get them to behave as function keys. If you keyboard has an **`fn`** key (usually somewhere to the left of the space bar but not always) you need to hold the **`fn`** key **AND** the key that is referenced (i.e. **`F2`**) at the same time to get the key to behave as a function key.

TROUBLESHOOTING

If you experience an issue with your computer during lecture, there's no need to panic. Follow these steps:

- If you have another device, hop onto the lecture link to watch.
- After lecture:
    - Contact your Instructor or Academic Fellow for assistance
    - They will help you assess if it is a Hardware or Software issue. Fellows and Instructors can assist with most Software issues.
    - For Hardware issues, you will be referred to Tech Elevator IT Support for further assistance

Troubleshooting Common Problems

[Windows] : If you get a command not found upon typing git --version

➡

You need to add a Path variable containing the location of your git