

Assessment Components

| Item                            | Weight |
|---------------------------------|--------|
| Pre-Lecture Quizzes             | 10%    |
| In-Class Exercises              | 10%    |
| Lab Assignments                 | 10%    |
| Team Project                    | 25%    |
| * Activity 1: System Req Spec   | (5%)   |
| * Activity 2: System Imp & Test | (20%)  |
| Midterm Quiz                    | 5%     |
| Final Exam                      | 40%    |

3

# Lab Class & Assignment



To earn the credit points, you must make an online submission of your completed lab assignment by the respective deadline. **Submission of Lab Assignment is done via Canvas**. Late submissions will be scored with zero marks.



Each lab class will start with a **brief presentation** of the topic of the week (walking through the lab exercises and tasks), followed by **Q&A time** to address specific issues of concerns and questions from the participating students.



Attendance for COMP3111 lab classes is **optional**. Video recording of the walkthrough of the lab tasks will be released on Canvas the following day.



| Date   | Lab | Торіс                                 | Presented By         | Graded By |
|--------|-----|---------------------------------------|----------------------|-----------|
| Feb 18 | #1  | Git and GitHub                        | Namkiu &<br>Haoyang  | Haoyang   |
| Feb 25 | #2  | Java Programming Basics               | Namkiu &<br>Hungchun | Hungchun  |
| Mar 4  | #3  | JavaFX                                | Namkiu &<br>Yukun    | n/a       |
| Mar 11 | #4  | Data Modeling                         | Namkiu &<br>Hungchun | n/a       |
| Mar 18 | #5  | Teamwork with GitHub                  | Namkiu &<br>Haoyang  | Haoyang   |
| Mar 25 | #6  | Debugging Tools                       | Namkiu &<br>Yukun    | Yukun     |
| Apr 1  | #7  | Unit Testing                          | Namkiu &<br>Hungchun | Hungchun  |
| Apr 8  | #8  | Conflict Resolution and Documentation | Namkiu &<br>Yukun    | Yukun     |

 $\ensuremath{^*}$  zoom link to the lab sessions has been posted on Canvas

5

| TA Office          |
|--------------------|
| Hours              |
| 5:30PM –<br>6:30PM |
| (MON)              |
|                    |

| TA-on-Duty |
|------------|
| Haoyang    |
| Hungchun   |
| Yukun      |
| Hungchun   |
| Haoyang    |
| Yukun      |
| Hungchun   |
| Yukun      |
|            |

<sup>\*</sup> zoom link to the TA Office Hours sessions has been posted on Canvas

# Channels of Support Email your questions to the Instructor or TAs Ask questions or seek clarifications from the instructor during the lecture sessions Ask questions or seek clarifications from the TAs during the lab sessions Ask questions or seek clarifications from the TAs during the TA Office Hours Post questions or share your thoughts on Telegram group for peer support



## Software Development Environment

- Java SE Development Kit 15 (JDK 15.0.2)
   <a href="https://www.oracle.com/java/technologies/javase/jdk15-archive-downloads.html">https://www.oracle.com/java/technologies/javase/jdk15-archive-downloads.html</a>
- Eclipse IDE for Java Developers 2020-12 R
  - https://www.eclipse.org/downloads/packages/release/2020-12/r
- GitHub
  - https://www.github.com

9

### Virtual Barn

https://itsc.hkust.edu.hk/services/academic-teaching-support/facilities/virtual-barn

- If you have difficulties in setting up the software development environment on your own computer, you might choose to use Virtual Barn instead (where the proper versions of Java SE Development Kit and Eclipse IDE for Java have already been installed)
- Download VMware Horizon Client on your laptop:
  - <a href="https://itsc.hkust.edu.hk/services/academic-teaching-support/facilities/virtual-barn/installation">https://itsc.hkust.edu.hk/services/academic-teaching-support/facilities/virtual-barn/installation</a>
- Follow the steps to connect to Virtual Barn:
  - <a href="https://itsc.hkust.edu.hk/services/academic-teaching-support/facilities/virtual-barn/user-guide">https://itsc.hkust.edu.hk/services/academic-teaching-support/facilities/virtual-barn/user-guide</a>
  - Remember that you need to select the programming software pool.
- It will virtually connect to the barn machine with your account.

# Guided Lab Exercises (refer to the worksheet)

- 1. Create a Java project in Eclipse
- 2. Setup a local Git repository
- 3. Make and commit changes to the local repository
- 4. Setup a remote Git repository on GitHub and push changes to it

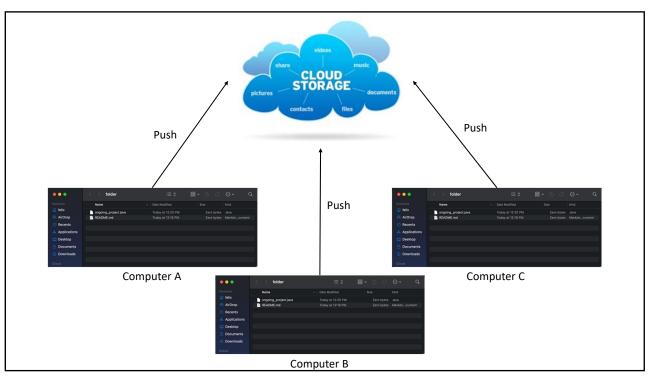
11

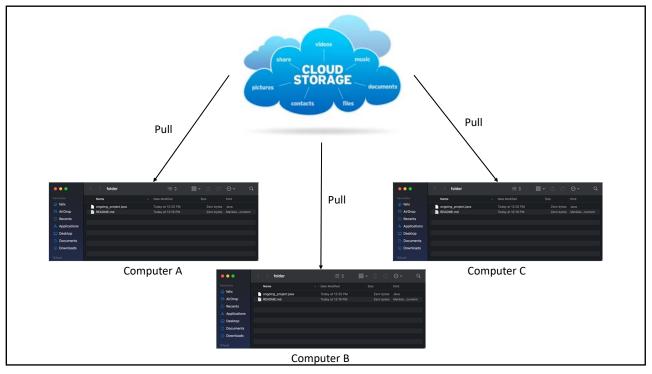
### What is GitHub?







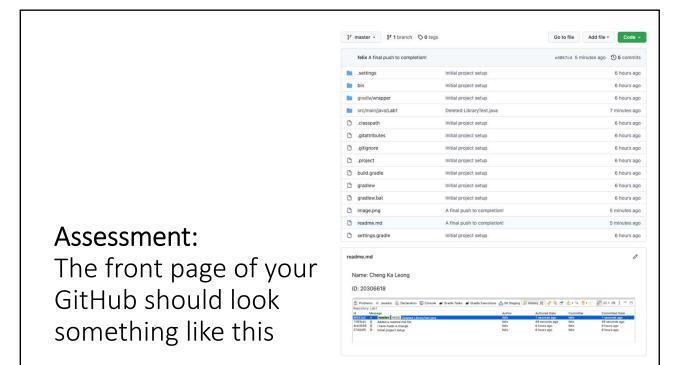




### Lab Assignment

- 1. Add a textfile "readme.md" to your project folder in Eclipse
- 2. Put a name and 8-digit ID in the file (could make up any name and 8-digit ID)
- 3. Commit with the message: "Added a readme.md file"
- 4. Push it to GitHub
- 5. Delete the file src/test/java/LibraryTest.java in Eclipse
- 6. Commit with the message: "Deleted LibraryTest.java"
- 7. Take a screenshot of the "Git History" panel to reflect the changes made
- 8. Add the screenshot file to your project folder in Eclipse
- 9. Find a way to link the screenshot image in readme.md (to be shown on GitHub)
- 10. Commit your screenshot file and readme.md, and push them to GitHub
- 11. Find a way to locate the deleted LibraryTest.java on GitHub

15



# Submission of Lab Assignment

Make an online submission of your lab work (two personalized URLs) through Canvas by the due date:

- URL link to your repository on GitHub
- URL link to the deleted LibraryTest.java on GitHub (in earlier versions of your repository)