**CS 504 – Software Engineering**

**HOP01A – GitHub for Individual and Teamwork**

10/02/2020 Developed by Kim Nguyen

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**Before You Start**

* Version numbers may not match with the most current version at the time of writing. If given the option to choose between stable release (long-term support) or most recent, please choose the stable release rather than beta-testing version.
* This tutorial targets Windows users and MacOS users.
* There might be subtle discrepancies along the steps. Please use your best judgement while going through this cookbook style tutorial to complete each step.
* For your working directory, use your course number. This tutorial may use a different course number as an example.
* The directory path shown in screenshots may be different from yours.
* If you are not sure what to do or confused with any steps:
  1. Consult the resources listed below.
  2. If you cannot solve the problem after a few tries, ask a TA for help.

**Learning Outcomes**

Students will be able to:

* Create GitHub repositories
* Customize the repositories based on project purposes
* Collaborate with others in the repositories

**Resources:**

* Howtogeek | What is GitHub? And What is it used for? | <https://www.howtogeek.com/180167/htg-explains-what-is-github-and-what-do-geeks-use-it-for/>

**Pre-requisites**

* Have a GitHub account.
* Installed Git.

***If you have not completed the above requirements, go back to “Preparation before starting with Hands-On Practice” section in your course shell before proceeding.***

1. **Create GitHub Repository**

Follow steps in the below video instruction to create a GitHub repository:

<https://youtu.be/wPiyjhFiJfw>

**NOTE: Name your repository: CS504-Individual-Project-YOURNAME**

**[replace: YOURNAME with your actual name]**

GitHub is a repository hosting service, where developers can share and contribute source codes, projects. GitHub supports version control and collaborator features, making coding sharing convenient and easy. More about GitHub: <https://www.howtogeek.com/180167/htg-explains-what-is-github-and-what-do-geeks-use-it-for/>

1. **Customize GitHub Repository**

Follow steps in the below video instruction to customize the GitHub repository you just created:

<https://youtu.be/8wdKq86YEvM>

**Tasks:**

* Edit the initial README.md file to include more detailed information of your project and team. Note that you should update this README.md file throughout your course, to reflect the progress of your project.
* Create 4 more folders with the names: “Submission2”, “Submission3”, “Submission4”, “Submission5”
* Create a README.md file for each folder
* Push your work to GitHub

1. **Invite Collaborator**

Follow steps in the below video instruction to invite collaborators to the GitHub repository you just created:

<https://youtu.be/biBJBR7o8I4>

**Tasks**:

* Invite your instructor as collaborator. Instructor’s GitHub username: cityu-rgary
* Invite your TA as collaborator. TA GitHub username: KimNguyenMai
* Later in the course, you will be collaborating with other classmates to work on this project, thus, you will need to invite them to this repository as well. Once you know who your team member will be, invite them as collaborator.