**Mobile Application Development**

**Android Studio and Git “Cheat Sheet”!**

This document summarises what you have to do in MAD at the start of the class to ensure Android Studio is set up correctly and can use git to clone and push projects to GitHub. It also covers how to commit changes and push to GitHub at the end of the class.

**Note that using git and GitHub is not compulsory for this unit. An alternative is to keep your work on a USB stick. However since they are industry standards, it is worth using them if you are confident with them.**

1. Launch Android Studio
2. When it asks you whether you want to import settings, select "I want to import my settings". For the path, enter

C:\Android2.3.3\.AndroidStudio2.3

This will prevent Studio needlessly downloading the SDK; it is already installed on the computers so there is no need to download it.

1. Now you can clone your project from GitHub, if you have uploaded it already (see step 4 for uploading). Select

* Check out project from Version Control
* GitHub
* Login to your GitHub account
* Ignore the "master password" prompt, you don't need to enter anything here
* Select your repository, it will probably be something like <https://github.com/yourusername/Mapping.git>
* When it asks you where to save it, choose the project folder in your home folder (e.g. C:\Users\1smitj01\AndroidStudioProjects). If the folder does not exist and an error occurs because of this, create it in Windows Explorer.
* Let the project load but then ensure you select "View-Tool Windows-Project" to show your project.

4. To commit your changes and push to GitHub at the end of a session:

- Select VCS-Commit Changes on Android Studio

- Add a commit message

- IMPORTANT! Change the blue button from "Commit" to "Commit and Push". "Commit" will simply commit the changes to your local repository. "Commit and Push" will also push the new commit to the remote repository i.e. GitHub.

- There is no need to review changes unless you need to

- A GitHub login window will appear. Login to your GitHub account

- Go to your GitHub project page e.g.

<https://github.com/your_github_username/madproject>

and check that your latest commit is there.