**BuildPC**
CS320 Project
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# Project Flow Manual

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## Google Drive

### Internal

All the project-related files are to be hosted and edited on Google Drive, please refer to the section "OVERVIEW".

### External

You may want to install GoogleDrive File Sync to your Workstation to make it easier for you to adapt to Project Flow. you may download it from the link here. You can think of this as if it is a Dropbox folder. The reason we are not using Dropbox is, The University grants us infinite storage on G Suite Applications with management overview and this makes the Flow Control a lot easier.

## OVERVIEW

### Google Drive

Within the folder shared with you, you will find Sub-Directories such as Reports, Backend, and Frontend. Each of the directories contains a folder with your name for you to use for the development of the project. You may and you should put all your project-related files at the appropriate subdirectory (if you are working on the backend put it on the backend directory and if you are working on the frontend please put your files on frontend directory), after putting your files there please do continue to edit them there. This will allow others to see and contribute to them if necessary.

### Github

Within the Github Organization, you will find 2 repositories by the names of Backend and Frontend. Please use the one related to your assignment.

Steps to use Github Flow in Google Drive;

1. Go to the Github Folder.
2. Update the local repo using "git pull"
3. Copy your edited files from your user folder(explained in Google Drive Section) to the Github folder.
4. Create a branch using "git checkout -b <branch_name>".
5. Execute command "git add ." This will add all changed files, your added files, for commitment.
6. Execute command "git commit -m <commit_message>" this will commit all changed files with message <commit_message> to the local repo.
7. Now you may push the changes to Github using "git push origin <branch_name>" this will push the changes to Github in a branch named <branch_name>.
8. The last is to go to Github from your browser and create a Pull Request to the master repo for merging.

## PURPOSE

The purpose of the flow control is to gain the ability to easily manage and control the project development and adapt to the industry standards in the hope of gaining some experience beforehand.

## SCOPE

The aim is to cover almost all the grounds of the development process. The following list below states what we have so far;

1. Github for Issue Tracking and Stable Release Publishes.
2. Teamcity by Jetbrains to run some Testing on the code and build the app for cross-platform automatically.
3. MySQL and phpMyAdmin for Relational Database Support.
4. DigitalOcean Ubuntu 18.04LTS Server for Hosting the project.

## RESPONSIBILITIES

Every member of the project, no matter the assignment of the member may be, is expected to contribute to the project with all they have since this is not a standard project for the CS320 course that is, this is an ambitious project that everyone accepted to be a part of.

There are 3 major responsibilities of each member;

1. Be a team player.
2. Deliver the given assignment before the deadline.
3. When you can try to help others. (Please do not confuse this team with a standard government establishment, everyone is responsible for everybody that is if one of us fails we all FAIL! )

## PROCEDURE

You may see your main assignments at the Github Issue Pages for Backend and Frontend. **Please check these pages regularly** since they are subject to change with the changing requirements or new ideas that comes to mind. Please keep in mind that deadlines are not yet finalized, so you may want to check with the Head Project Manager(Kerem Güre) to confirm your assignments deadlines.

Please also note that you are not limited to be assigned other work.

## RISKS

This project, of course, involves some risk, maybe more than the others, but the projects' gains surely outweigh the risk involved. The risk assessment shows that, given the project structure and the planned use for frameworks and other concepts, some of the members may have a bit of a hard time in the early stages of the project but, given the ambition and the success of these members, it is only a matter of time that these members will overcome such hard times with some study and research.

## FINAL MARKS

Please do ask any question that comes to mind through either Github Issue Tracking or via Email, Whatsapp.

For git guide you may check this link.