**CS639 – Mobile App Development – Spring 2021**

**Name: Rodrigo Martins**

1) What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform? (Paragraph between 3 and 5 lines)

GitHub is a platform that maintains source codes for version control (Git) and allows developers to collaborate on projects. According to [GitHub](https://github.com/about) webpage, its first commit was created in October 2007 but by [Wikipedia](https://en.wikipedia.org/wiki/GitHub), the service started in February 2008. It was created by Chris Wanstrath, P. J. Hyett, Tom Preston-Werner and Scott Chacon. GitLab, BitBucket, etc. are similar platforms. I like using GitHub not only to maintain my personal projects source code but also to participate in team / open-source projects.

2) Define the following terms in the context of Git (2 lines maximum for each):

* **Repository**: The place or folder created in the GitHub platform where projects source code is maintained. Each project has its own repository.
* **Commit**: After making modifications in the source code, these modifications need to be saved. Commit is when you save them to be pushed to the repository.
* **Push**: When you upload the commit (saved modifications) to the repository.
* **Branch**: It means creating another version of the repository to work on without modifying the main branch, and that can be merged to the main branch later.
* **Fork**: It means creating a copy of the forked repository where it can be modified without changing the original repository.
* **Merge**: It means putting together the modification made in a created branch into the main branch. When the modification is integrated to the main branch.
* **Clone**: It means creating a local copy of the repository files.
* **Pull**: It means updating local copy of repository according to the modifications on repository files.
* **Pull request**: It is the action of informing the repository admin that some modifications were pushed to a branch in a repository in order to be reviewed.

3) List the commands and strategy you used to retrieve the README.md file at <https://github.com/paceuniversity/courses>, add your name and a comment in the file (at the end), and update the README.md file using a pull request:

1. Forked the repository at <https://github.com/paceuniversity/courses>
2. Cloned the forked repository into local – “git clone <repo path>”
3. Created and switched to a new branch – “git checkout -b <branch name>”
4. Modified the README.md file by adding my name and date at the end of the file
5. Committed the change – “git add .” and “git commit -m ‘adding my name to the file’ ”
6. Pushed the modification to the forked repository – “git push origin <branch name>”
7. Created a pull request to the repository at <https://github.com/paceuniversity/courses> as shown in the forked repository