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Module 2: version control with git

## home task

As a basis for this home task, you’ll need to create a git repository on git.epam.com / github.com.

1. GIT base actions:

* Clone remote repository using SSH keys;
* Create 3 commits in “master” branch;
* Create new “develop” branch and push 2 commits to it;
* Merge “develop” branch to “master” branch;

1. GIT advanced actions:

* Add 2 additional commits to "develop" branch, and 1 additional commit to “master”. Rebase "develop" with new commits from "master";
* Add 2 additional commits to “develop” branch. Cherry-pick the first commit to “master”. Revert the second commit;
* Together with your mentor emulate ‘merge conflict’ situation and resolve this.

Please check out the following guide about commit message naming: <http://chris.beams.io/posts/git-commit/>

As the result share the link to the repo with your mentor as well as screenshots of ‘GIT repository browser’ (use gitk command to open it) and history of actions performed.

## acceptance criteria

1. GIT repository exists on git.epam.com or github.com;
2. Access is granted to a mentor and curators;
3. A mentee has local copy of remote repository;
4. There is ‘master’ branch with at least 3 commits;
5. There is ‘develop’ branch with at least 2 commits;
6. ‘develop’ branch was merged into ‘master’ branch at least once. It should be visible in history and/or on ‘GIT Repository Browser’;
7. ‘develop’ branch was rebased at least once. It should be visible in history and/or on ‘GIT Repository Browser’;
8. There is at least one ‘cherry-picked commit’. It should be visible in history and/or on ‘GIT Repository Browser’
9. There is at least one ‘reverted’ commit. It should be visible in history and/or on ‘GIT Repository Browser’;
10. There is at least one resolved ‘merge conflict’. It should be visible in history and/or on ‘GIT Repository Browser’