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Module D.1 Level4 Answers

1. Features of version control systems (VCS) are that by using a special kind of database, it keeps track of each and every modification to the source code and developers can turn back the clock and compare previous versions of the source code if a mistake is made. This doesn’t disturb all team members and minimizes work. Other features are that version control helps teams solve different computer problems and good version control software supports a developer’s wanted workflow without imposing one specific way of working.
2. Professional software developers use a VCS because it has many benefits such as branching and merging, traceability, and a complete long-term change history of every file. A VCS would be helpful in this course because all our files will be updated and clear and we will be able to have all our work backed up.
3. Collaboration is when you work with people to create something. With a VCS, every member on a software team can work with freedom on any file at any time. Then, the VCS allows you to merge all the changes made into a common version. Without a VCS, only one person can work on one file at a time, and everybody else must keep their hands off that file, which isn’t an acceptable workflow. GitHub will allow me to work and view the same files as my teacher and other members of my group at the same time which will get things done faster. This is also more efficient and effective.
4. Backup is the procedure for making extra copies of data in case the original is damaged or lost. GitHub will allow everybody in a group to have a full-blown version of the project on his/her disk, including all of the project’s history. If the central server breaks down and your backup drives fail, the only thing needed for recovery would be one of your group mate’s repository.
5. A version control system (VCS) can be thought of as a kind of “database”. It allows you to save a snapshot of your whole project at any time you want. When you see an older snapshot (start calling it “version”), your VCS shows you exactly how it was different from the previous one. GitHub version control will be useful in this course because it will let us view our old projects, see what mistakes we made and improve those mistakes.
6. Distributed access is when many people, or all members of a group can have access to a file or document. GitHub distributed access is useful for our class because it allows everybody to have access to our module and project files. It allows us to do all the work we have. Without it, no work would be able to be done because not everybody will have the necessary files.