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Student A: Version control software

- Version control software allows teams to communicate and to track and manage different versions of applications, from design to deployment.
- Developers can use version control software to experiment with new code without fear of causing damage to the system they are developing.
- Problem areas in code from different developers can be identified quickly and the source of these problems can be highlighted by the version control software.
- Version control systems can be local (where files are stored on a local system), centralized (where all changes are stored in a single server) or distributed (where developers copy a Git repository and update the repository with changes they make).
- The three most well-known version control systems are Git, SVN (Subversion) and Mercurial.

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Student B: Automated testing methods

- Automated testing applies software tools to review and validate the quality of a software product.
- Test plans are developed at the same time as the software development is planned and the test plans are executed automatically as the software is built.
- Automated testing is a key component of continuous integration and continuous delivery and it is integrated into most modern agile and DevOps software projects.
- Unit tests look at the quality of very small components of an application and they are generally quick to run.
- Integration tests check if different modules or services in an application work well together and require the parts being tested to be running.
- Acceptance tests check if a system satisfied the specified business requirements and they require the entire application to be running when testing.

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Student C: Agile methodologies

- Agile methodologies use short, repeated development cycles.
- A primary benefit of agile is the ability to rapidly change requirements based on customer input.
- Incremental design such as using frameworks and reusable components can improve quality.
- Regular code review by the development team can help to identify and resolve issues quickly.
- Agile testing includes continuous integration of new code to ensure that bugs are identified at an early stage.

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Student D: Using different programming languages

- Ensure a close match between the capabilities of the language and the requirements of the project.
- Evaluate the reliability of the language (e.g., Java extremely reliable, PHP can have many security issues).
- Consider the range of libraries and tools already available for the language, as these can make development more reliable.
- Range of available skill sets (developers for some languages are hard to find and very expensive).
- Choose the most suitable language for the task (e.g., JavaScript for web-related tasks).