

Milestone 1

Team: CABS

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Tools:

Git

Git is an industry standard revision control program that will allow our multiple team members to work on our project. By using branching to allow each member to work on a copy of the project we can work simultaneously without interfering with each other and the merge tools will help us manage multiple changes to single files.

NetBeans for Java compiler

NetBeans is a free Java compiler that one of our team members has been using for the past couple of months. Since we have a familiarity with it, we chose it for our Java compiler.

Microsoft SQL Server 2016

This software is interchangeable with MySQL and was chosen because of the power this tool provides to database query searching. With the implementation of smart algorithms, we will be able to access important data in the database very quickly and efficiently.

Unity

This is a free to use programming tool that is more commonly used in game development, however it also has the power to create applications for not only Computers or Consoles, but cellphones and tablets as well. Unity provides us with an engine that is cross platform ready in case we will need to support for example, both iOS and Android.

JDBC

Our project is a library assistant which will require database tools. Sun Microsystems developed JDBC as part of the Java Developers Kit specifically for working with databases making this a logical choice.

Technologies:

Java

Assuming that there will be a variety of different people using different computers, phones, and tablets, we want to reach a wide range of platforms. Multiple team members have past experience with Java and it is a versatile, object-oriented language that can reach many different platforms.

Windows 10

As a team, we all have access to and own a copy of Windows 10. One of the most popular and well-maintained operating systems, Windows 10 will be the most adaptable environment for our team as well as our clients.

Database server

A server-based database is most effective because it keeps the information centralized and easily accessible. If a library has multiple librarians, or the program is used across an entire system of libraries, this gives every librarian access to the same information. This allows every librarian to access and review or change the status of any book. If one librarian places a hold on or checks out a book, the info will be available on the server, and thus, available to every other librarian.

Processes:

Agile Process Model

This model allows us the freedom to change on the fly. If the client remembers another feature they would like, or doesn't like the way a feature is implemented, we have the freedom to change it as needed. This is also a relatively small project that can change at any time according to customer feedback, making the Agile Model preferable to the other models.