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Both the Waterfall Model and Agile Development are methods in which to lay out the development and design of java programs. Both models share the same steps, but are different in the way and order that the steps are executed. However, the Waterfall Model and Agile Development have pros and cons that make them suitable for different projects.

The Waterfall Model runs through the steps of figuring out system requirements, analyzing, designing, implementation, testing, debugging, deployment, and maintenance. One of the disadvantages of designing a java program using the Waterfall Model is that you have to start at the beginning of the project with system requirements and progress all of the way down to testing and debugging before making any changes to the program. The Waterfall Model also relies heavily on requirements set at the beginning of the project, so if there any problems with the initial outline, they can not be resolved until the program is completed. This also means that the Waterfall Model does not allow for changes to be made throughout the project design. Due to this, the project may not be completed by the launch date that the client sets out. However, the Waterfall Model does have some advantages. It has a stronger basis of record keeping than Agile Development and it has a better understanding of expected goals and budget.

Agile Development runs through the same steps as the Waterfall Model, but the development process runs in a series of sprints that allow for changes to be made to the project after each sprint, as well as input from the customer or client. These sprints run weekly and this

means that bugs are more likely to be caught throughout the build process, making it more likely for the project to be completed in time for the product launch date. However, Agile Development does have some disadvantages. For example, if the project requirements are unclear, the final project may be very different than the client's expectations.

Therefore, both the Waterfall Model and Agile development begin and end at the same point and share many characteristics. However, both have their advantages and disadvantages, which set them apart from one another and make them suitable for different projects.

Bibliography

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