Waterfall definition

The project can be divided into distinct stages.

Each stage is completed before the next is started.

Each stage depend on the previous stage only.

Agile definition

A very comprehensive methodology defines the analysis and design in module and stages.

A variety of technologies are used including.

|  |  |
| --- | --- |
| Waterfall | Agile |
| Advantages  The project can be planned using the stages as indicators of progress.  It helps in producing a project plan.  Aids project management.  Drawbacks  Stages are not always clearly defined-there is often overlap between them.  Does not allow for repetition of stages-often the need to re-evisit past stages. | Advantages  A well proven methodology  Freely available  Ease of testing  Member of team work in same way  New member of team likely to understand methodology  Drawbacks  .There is lack of emphasis on necessary designing and documentation.  Can be very demanding on the user time  Potential for scope creep  Costs can increase as testers required all the time instead of at the end. |

Why use

Lower cost

Encourages open communication among team members, and clients.

Speeds up time spent on evaluation is only on a small part of the whole project.

PHP definition

PHP is an acronym for “PHP: Hypertext Preprocessor”

PHP is a widely used, open source scripting language

PHP script are executed on the server

Java Definition

Java is a programming language that enables you to crate dynamically updating content, control multimedia, animate images, and pretty much everything else.

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| --- | --- |
| PHP | Java |
| Advantage  Open source  Easy to use  Can be run on many platforms  Stable  Drawback  Not suitable for large applications  Weak type  Security | Advantages  East to learn  Object-oriented  Distributed  Platform-independent  Drawbacks  Security issues  JavaScript rendering varies |

Why use

PHP runs on various platforms

PHP is compatible with almost all servers used today

PHP supports a wide range of databases

PHP is easy to learn and runs efficiently on the server side.

MySQL definition

MySQL is the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corption.

Access definition

Access is simply being able to get to what you need. Data access is being able to particular data on a computer.

|  |  |
| --- | --- |
| SQl | Access |
| Advantage  High Speed  No Coding required  Well Defined Standards Exist  Drawback  Difficulty in interfacing  More features implemented in proprietary way | Advantage  Easy to install use  Ease to integrate  Widely popular  Save your money  Drawback  Finite  Multiple user limited  Static Friendly |

Why Use

SQL a highly desirable skill

Client/Server language

Easy to learn and understand

Complete language for a database