

## ASSIGNMENT

### Group members

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1. Briefly explain the use of each of the three types of Web Portals

**Answer:**

- a. Vertical portals

These are pages that provide information and links for special – interest groups in other words these are web portals which focus only on one specific industry, domain or vertical. This type of portal provides tools, information, articles, research and statistics on the specific group. Vertical web portals are used to provide special information about a certain group.

- b. Corporate portals

This is the type of portal that provide access to work related resources. Corporate portals are used for provision and efficient dissemination of information and services to the employees of the corporate.

- c. Search portals

These are pages that aggregate results from several search engines into one page such as [www.google.com](http://www.google.com). The use of search portal is to enable users to locate information on the world wide web.

2. Describe the meaning of gradual refinement in the context of SDLC.

**Answer:**

Gradual refinement is the step-by-step process which are done in system development life cycle (SDLC). System Development life cycle is said to be gradual refinement since it is done through different development phases which are interdependent to each other example of phases is planning, analysis, design, implementation and maintenance.

3. Explain the advantages and disadvantages and applicability of waterfall and Agile Models in development software

**Answer:**

**Waterfall model** is a sequential model that divides software development into pre-defined phases.

#### **Advantages of waterfall model**

- a. Project is completely dependent on project team with minimum client intervention.
- b. Any changes in software are made during the process of development.
- c. Elaborate documentation is done at every phase of the software's development cycle.

#### **Disadvantages of waterfall model**

- a. Small changes or errors that arise in the completed software may cause a lot of problems.
- b. Client valuable feedback cannot be included with ongoing development phase.
- c. Documentation occupies a lot of time of developers and testers.

#### **Applicability**

Waterfall model is mostly applicable in small projects.

**Agile Model** refers to software development approach based on iterative development, that each iteration involves a team working through a full software development life cycle including planning, requirement analysis, design, coding, and testing before a working product is demonstrated to the client.

#### **Advantages of Agile model**

- a. Product is developed fast and frequently delivered.
- b. late changes in requirement are also accepted.

#### **Disadvantages of Agile model**

- a. It is not useful for small development projects.

- b. Cost for agile development is higher more than other methodologies.

### **Applicability**

Agile model is mostly applicable in larger projects.