**What is a Website?**

Website is a collection of web pages that display static content like text, images/ videos. It is mainly informational and doesn’t have interactive functionality. Blogs, portfolios / news sites.

**What is a Web App?**

Web app is a dynamic and interactive software that runs in a web browser. It allow users to perform specific tasks, such as logging in, submitting forms, purchasing items.

**What is SaaS?**

SaaS is stands for Software as a service. SaaS is a cloud based software delivery model where application are hosted on the internet and accessed through the browser. Users don’t need to install / maintain the software, they can use it via a subscription.

**Key feature of SaaS**

* **Accessible anywhere**

Runs in a web browser

* **No installation**

No need to install software on a local machine

* **Subscription based**

Pay monthly / yearly for usage

* **scalable**

Resource can grow with user needs

**SaaS applications**

* In Google workspace are Docs, Gmail, Drive
* in Microsoft office 365 are Word, Excel, Outlook
* In Dropbox is Cloud storage
* Zoom

**What is the DRY Principle?**

The DRY stands for **Dont repeat yourself. DRY** is a software development principle that encourages developers to avoid duplicating code in a system. The main idea behind DRY is to reduce redundancy and promote efficiency by ensuring that a particular piece of knowledge / logic exists in only one place within a codebase. When developers adhere to the DRY principle, they aim to create reusable components, functions / modules.

**Key feature of DRY principle**

* **Code reusability**
* **Maintenance and updates**
* **Readability**
* **Consistency**
* **Reduced development tim**
* **Facilitates collaboration**
* **Avoidance of copy-paste errors**
* **Testability**

**What is the KISS Principle?**The KISS principle which stands for “Keep it simple, stupid” some variation use “keep is short and simple” / “keep it super simple”. It is a design principle that suggests simplicity should be a key goal in design, development, and other fields, such as engineering, software development, and user interface design.

The principle advocates for simplicity in systems, processes, and products, aiming to minimize complexity and make things easier to understand and use.

The KISS principle in software development has several implications

* **Simplicity**
* **Clarity**
* **Efficiency**
* **Usability**
* **Flexibility**
* **Risk reduction**

**What is a Library?**

A library is a collection of reusable functions / code that we can use to perform specific tasks without writing the logic ourselves.

* React for building UI
* Lodash for utility functions

**What is a Framework?**

A framework is a structure that provides a complete foundation for building applications. It sets rules and guidelines to organize code.