Module-2

1. JavaScript framework

A JavaScript framework is an application framework written in JavaScript. It differs from a JavaScript library in its control flow: a library offers functions to be called by its parent code, whereas a framework defines the entire application design. ... Examples: AngularJS, Ember.js.

That means the developer writes pieces of code that get called by the framework when various things happen; Ex:backbone.js , or jasmine . Libraries are packages of code that typically get called by your application to perform a task, like DOM manipulation or HTTP requests. Ex: jQuery

1. DVCS

The software revisions are stored in a distributed revision control system (DRCS), also known as a distributed version control system (DVCS).

In [computer programming](https://en.wikipedia.org/wiki/Computer_programming), distributed version control, also known as distributed revision control or decentralized version control, is a form of [version control](https://en.wikipedia.org/wiki/Version_control) that allows [software developers](https://en.wikipedia.org/wiki/Software_developer) to work on a given project without requiring them to share a common network. The [software](https://en.wikipedia.org/wiki/Computer_software) revisions are stored in a distributed revision control system (DRCS), also known as a distributed version control system(DVCS).

The first open-source DVCS systems included [Arch](https://en.wikipedia.org/wiki/GNU_arch), [Monotone](https://en.wikipedia.org/wiki/Monotone_(software)), and [Darcs](https://en.wikipedia.org/wiki/Darcs" \o "Darcs). However, open source DVCSs were never very popular until [Git](https://en.wikipedia.org/wiki/Git_(software)) and [Mercurial](https://en.wikipedia.org/wiki/Mercurial_(software)) appeared. The development of Git, now the world's most popular open source DVCS, was prompted by the decision of the company that made BitKeeper to rescind the free license that Linus Torvalds and some other Linux kernel developers had previously taken advantage of.

1. DOM

The Document Object Model (DOM) is an application programming interface (API) for HTML and XML documents. It defines the logical structure of documents and the way a document is accessed and manipulated.

One of the most important aspects of JavaScript and thereby jQuery, is manipulation of the DOM. DOM stands for Document Object Model and is a mechanism for representing and interacting with your HTML, XHTML or XML documents.

1. HTTP

The Hypertext Transfer Protocol (HTTP) is an application protocol for distributed, collaborative, and hypermedia information systems. HTTP is the foundation of data communication for the World Wide Web. Hypertext is structured text that uses logical links (hyperlinks) between nodes containing text.

HTTP is a request/response protocol, which means your computer sends a request for some file (e.g. "Get me the file 'home.html'"), and the web server sends back a response ("Here's the file", followed by the file itself).

1. UI vs. UX

UX is focused on the user’s journey to solve a problem, UI is focused on how a product’s surfaces look and function

## A UX designer is concerned with the conceptual aspects of the design process, leaving the UI designer to focus on the more tangible elements

## Agil methodology

## The Agile Method is a particular approach to project management that is utilized in software development. This method assists teams in responding to the unpredictability of constructing software. It uses incremental, iterative work sequences that are commonly known as sprints.

## Agile Methodology is a type of project management process. ... An iteration is the routine of developing small sections of a project at a time. Each iteration is reviewed and assessed by the development team and client. The insights gained from the assessment are used to determine the next step in development.

## CLI

## A command-line interface or command language interpreter (CLI), also known as command-line user interface, console user interface[[1]](https://en.wikipedia.org/wiki/Command-line_interface#cite_note-1) and character user interface (CUI), is a means of interacting with a [computer program](https://en.wikipedia.org/wiki/Computer_program) where the [user](https://en.wikipedia.org/wiki/User_(computing)) (or [client](https://en.wikipedia.org/wiki/Client_(computing))) issues [commands](https://en.wikipedia.org/wiki/Command_(computing)) to the program in the form of successive lines of text (command lines). A program which handles the interface is called a command language interpreter or shell.

## A computer that is only using the command line takes a lot less of the computer's system resources than a GUI. A GUI requires more system resources because of the elements that require loading, such as icons and fonts.

## API

## An application program interface (API) is a set of routines, protocols, and tools for building software applications. Basically, an API specifies how software components should interact. Additionally, APIs are used when programming graphical user interface (GUI) components.

## In [computer programming](https://en.wikipedia.org/wiki/Computer_programming), an application programming interface (API) is a set of [subroutine](https://en.wikipedia.org/wiki/Subroutine) definitions, [protocols](https://en.wikipedia.org/wiki/Protocol), and tools for building [application software](https://en.wikipedia.org/wiki/Application_software). In general terms, it is a set of clearly defined methods of communication between various software components. A good API makes it easier to develop a [computer program](https://en.wikipedia.org/wiki/Computer_program) by providing all the building blocks, which are then put together by the [programmer](https://en.wikipedia.org/wiki/Programmer). An API may be for a web-based system, [operating system](https://en.wikipedia.org/wiki/Operating_system), [database system](https://en.wikipedia.org/wiki/Database_system), [computer hardware](https://en.wikipedia.org/wiki/Computer_hardware) or [software library](https://en.wikipedia.org/wiki/Library_(computing)). An API specification can take many forms, but often includes specifications for [routines](https://en.wikipedia.org/wiki/Subroutine), [data structures](https://en.wikipedia.org/wiki/Data_structure), [object classes](https://en.wikipedia.org/wiki/Class_(computer_programming)), [variables](https://en.wikipedia.org/wiki/Variable_(computer_science)) or [remote calls](https://en.wikipedia.org/wiki/Remote_procedure_call). [POSIX](https://en.wikipedia.org/wiki/POSIX), [Microsoft](https://en.wikipedia.org/wiki/Microsoft) [Windows API](https://en.wikipedia.org/wiki/Windows_API), the [C++](https://en.wikipedia.org/wiki/C%2B%2B) [Standard Template Library](https://en.wikipedia.org/wiki/Standard_Template_Library) and [Java APIs](https://en.wikipedia.org/wiki/List_of_Java_APIs) are examples of different forms of APIs. Documentation for the API is usually provided to facilitate usage.

## GUI vs. CUI

The graphical user interface (GUI /ɡuːiː/), is a type of user interface that allows users to interact with electronic devices through graphical icons and visual indicators such as secondary notation, instead of text-based user interfaces, typed command labels or text navigation.

CUI stands for Character User Interface,it means that u have to type commands to interact with ur computer. ... GUI stands for Graphical User Interface,it means that u no need to type commands to interact with ur computer instead u have to click with the help of mouse on the icons of readymade commands.

## CMS

## A content management system (CMS) is a software application or set of related programs that are used to create and manage digital content. CMSes are typically used for enterprise content management(ECM) and web content management(WCM).

## A content management system or CMS is a software that facilitates creating, editing, organizing, and publishing content. WordPress is a Content Management System, that allows you to create and publish your content on the web. ... WordPressis open source and free for anyone to use.