# IT 254 - Web Technologies and Applications

### Written Assignment

(2.1) Submit a suport on the features, differences and possible future enhancements of Web 2.0 and Web 3.0.

# A·1) Neb 200 ;-

The torm 'Web 2.0' refers to the websiter that emphasize wer-generated content, last of use and interoporability for end every. Due to the overarching focus on end-users, and their active participation, Web 2.0 is sometimes referred to as Participative, or Social Web. The term was invented by Dancy DiNecci in 1999. Examples of such websites include wirs, blogs, social notworking sites, etc.

## -> Features:

- · User one primited to netrieve and classify information collectively. For example, sites have a searching functionality that allows access to information by simply typing a keyword. Also, were are allowed to tag parts, not having to depend on pre-made adjusted and halping to classify information
- o The content present in Web 2.0 is dynamic and susponesse to use input. For example, users can decide what kind of post they like or don't like on social media websites. This allows the stee to show content tailored to the user's interests.

- In Web 2.0, information flows to the site reserve from site owners and the means of evaluation and online commenting. In most sites, tithe site owners not out charges, they get a neupower from their west through comments. These are then evaluated to form brive strategy.
  - Web 2.0 how allowed the internet to transition from a small "read-only" when base to a large "read-and-write" were base.

### Future Enhancemonts:

Most experts say that we are today experiencing Web 2.0. In the future, Web 2.0 is expected to transition to Web 3.0.

### Web 3.0

The term 'Web 3.0' refers to the evolution of web utilization and interaction evolute alterny the Web into a database.

Also called the <u>Semantic Web</u>, it envisions the upgradation of the backend of the web, after the focus on the frontend in Web 2.0.

#### Features 3

- Semantic Web: Web 3.00 to resees the development of Natural Language browning (NIP) to such an extent that web technologies will beable to comprehend the meaning of words, rother than keywords or numbers.
- · Ubiquity: Content is accessible by multiple applications and every duice is connected to the word (Interest of Things).

- · Artificial Intelligence: In Web 3:0, competers on housesthe fre pours of machine bearing and NLP to distinguish information like humans and poside toster over the relevant suguits.
- 3D Graphies: The three-dimonatoral disign is used violety in Web 3.0.

  Museum guides, computer games, ecommone are just some examples
  of cases welcose 3D Graphics will be used. (Virtual Reality)
  - Comedivity: With Web 3.0, information is more connected due to semantic metadata. Hence, wer experience is improved due to luveraging of all available information.

# \* Défances letween Web 2.0 and Web 3.0;

- · While web 2.0 it "read-write" towessed, Web 3.0 will be more "partable and parsonal".
- · Web 20 has a community tour noticle Web 3:0 will be to cutsed on the individual.
- · While Web 200 Prudomirantly uses XML and RSS, Web 300 will use a mix of RDF, RDFS, and OWL.
- . Advertising will transform, from the interactive advertising of Web 2.0 to the ishavioural advertising in Web 3.0.
- In Web 3.0, Withpedia is let to be obsolute, due to the scrie of the Semantic web. In web 2.0, Withpedia is an Emportant fillar of the Intornet.

#### \* Eutore Enhancements:

Web 3.0 is predicted by some experts to be 10-15 years ahead in the future. According to them, we are in a transtion from Web 2.0 to 3.0 right now.

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