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Multimedia Technology

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Contemporary and Forward Looking

Multimedia Technology

LEARNING UNIT 7

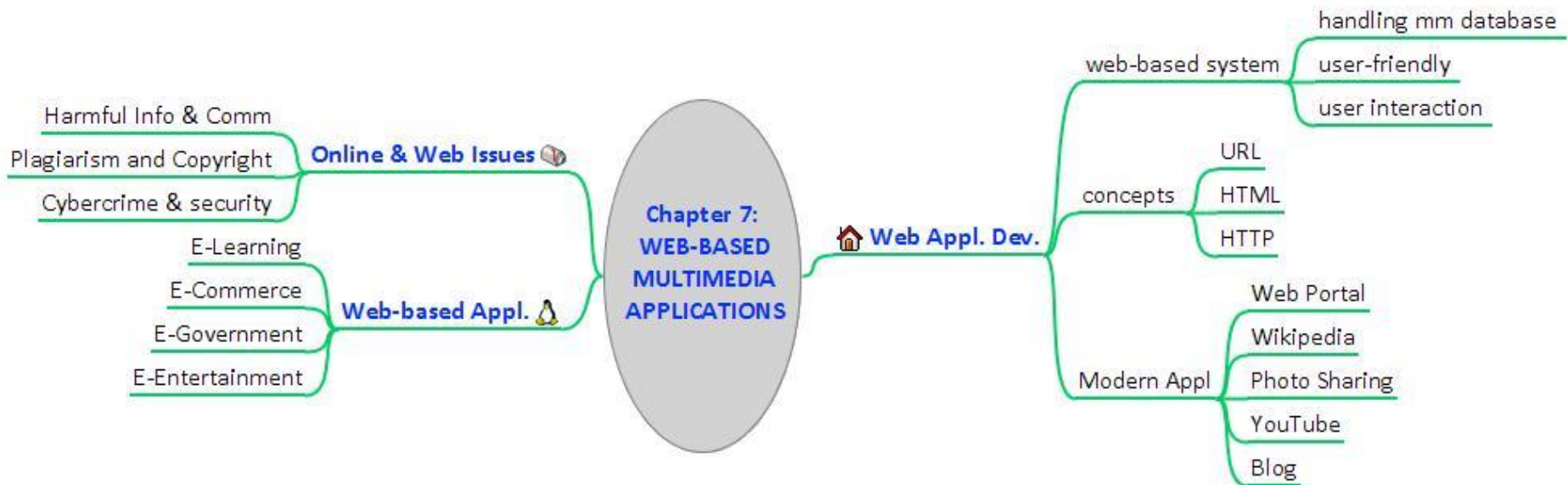
WED-BASED MULTIMEDIA APPLICATIONS



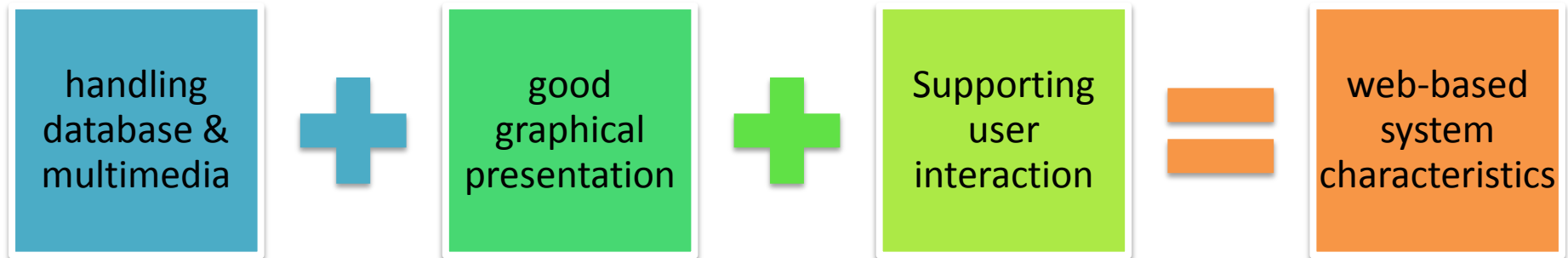
LEARNING OUTCOMES

- Describe about the characteristics of web-based system.
- Examine the examples of web-based multimedia applications.
- Discuss online issues such as copyrights and cybercrime.





Characteristics of Web Applications

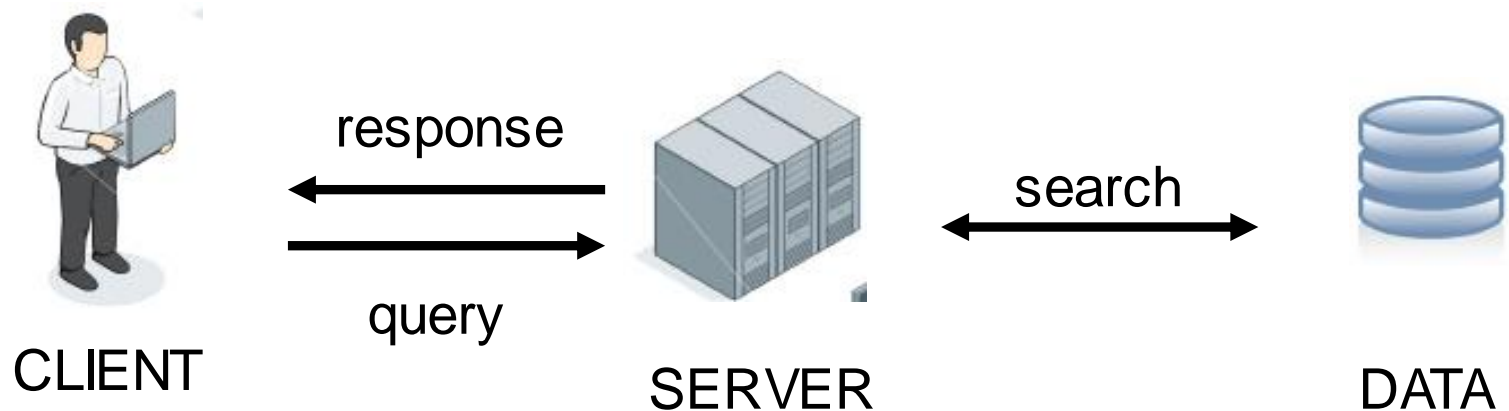


Characteristics of Web Applications

- A web application is defined as an application that is invoked with a web browser, with internet as the main backbone(Jazayeri,2007).
- Normally, a web-based system has several characteristics such as:
 - Capable of handling database and multimedia contents
 - Has a good graphical presentation for userfriendly navigation
 - Supporting proactive user interaction such as serach quarry



Development of Web Applications



Client-Server Computing
Source : <http://www.istockphoto.com>

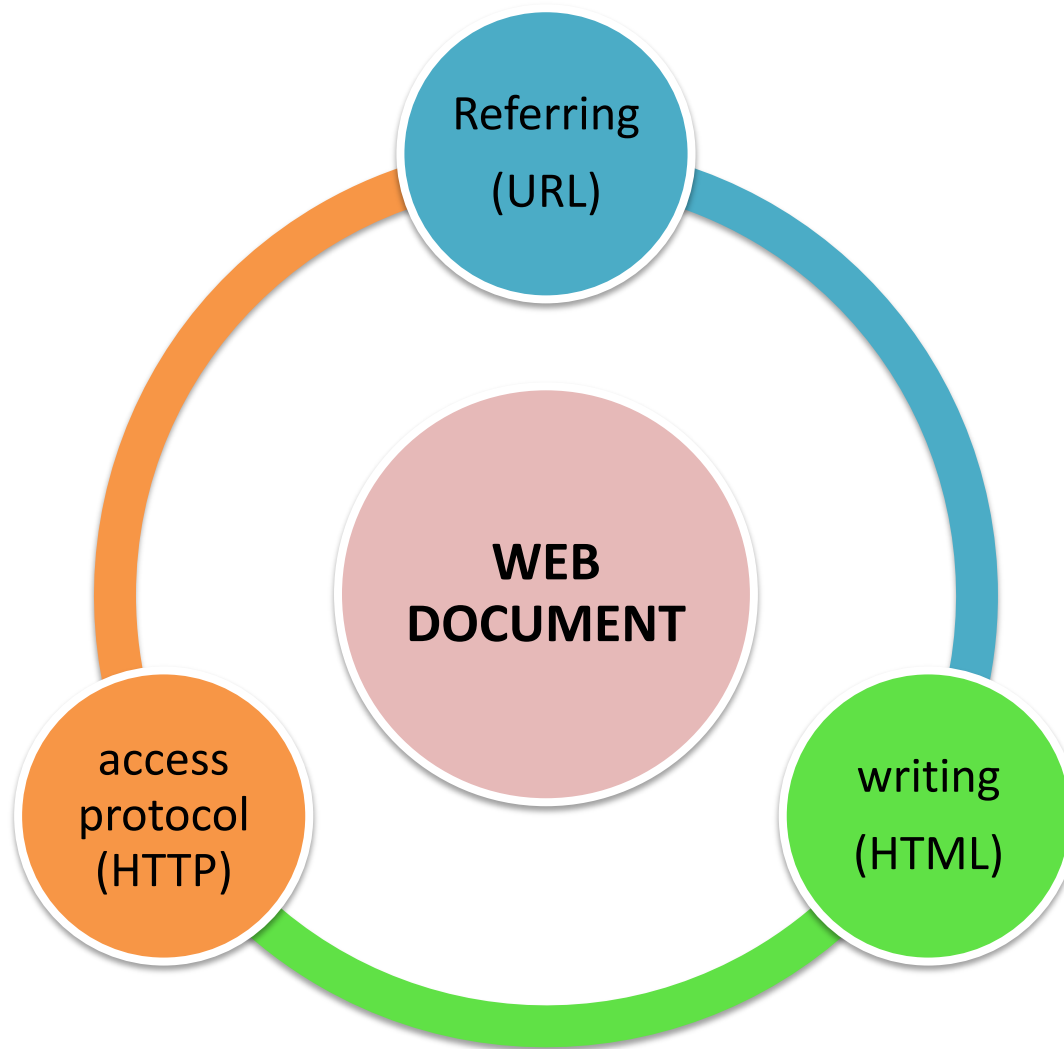


Development of Web Applications

- In terms of its structure, WWW works based on client and server concepts
- To call or invoke the online documents, the client first has to request or send a query for the information to be viewed from the server
- Then the server will do the searching process from the data repository.
- Finally, the server will respond by sending the required data to the client.



Fundamental Concepts in Web Applications



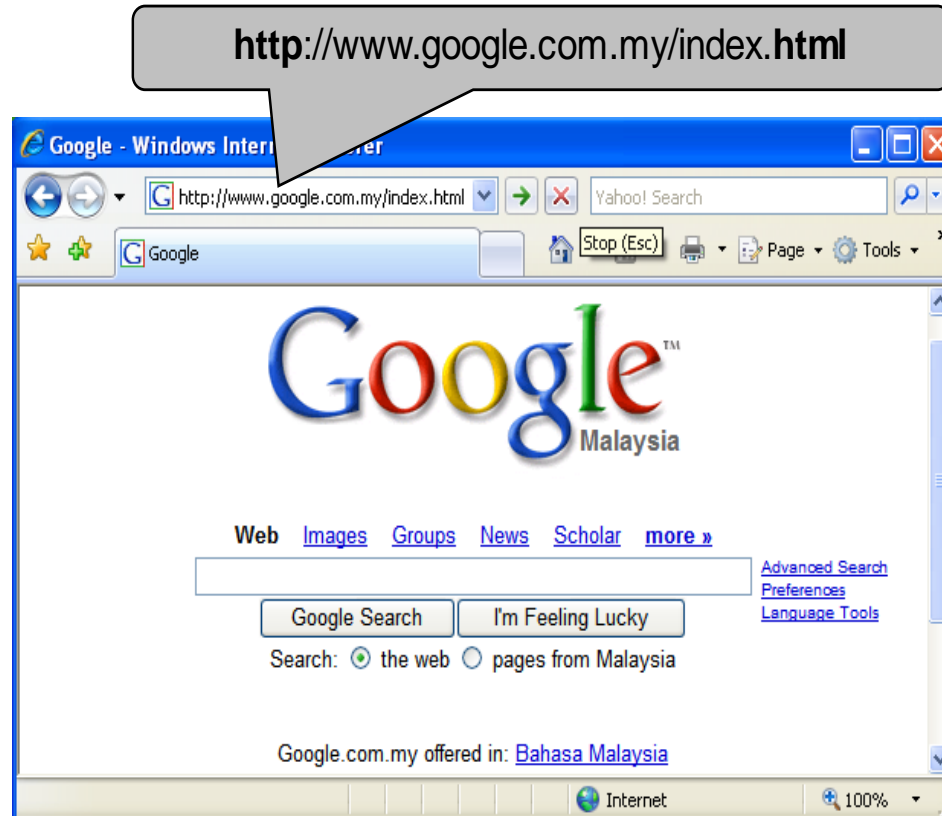
Fundamental Concepts in Web Applications

Three fundamental concepts in web applications are as follows:

- Document referring (Uniform Resource Locator – URL)
- Document writing (HyperText Markup Language – HTML)
- Document access protocol (HyperText Transfer Protocol - HTTP)



Fundamental Concepts in Web Applications



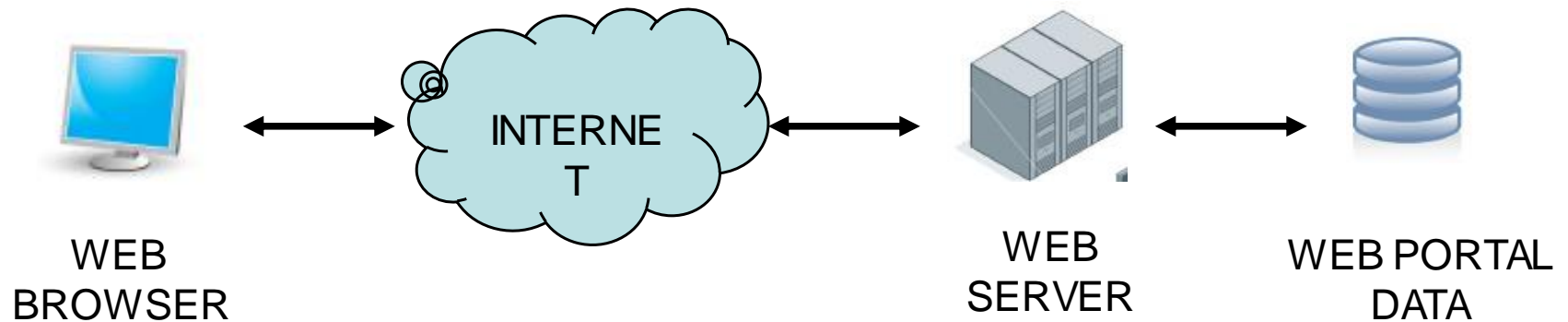
HTTP and HTML.

Source : <http://www.google.com>

URL is the whole combination of HTTP, domain name and HTML document name.



Modern Web-based Multimedia Applications



web portal architecture

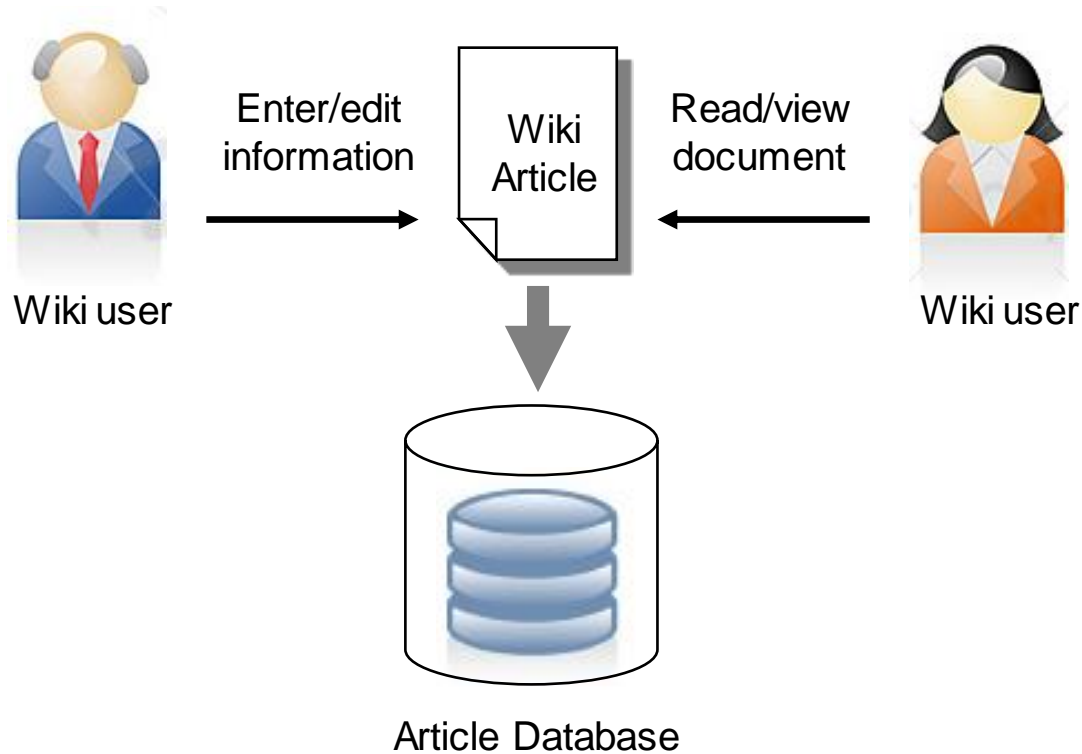
Source : <http://www.istockphoto.com>

Modern Web-based Multimedia Applications

- Web portal is defined as point of access of internet information.
- Web portals offer various types of information, database and applications based on unified nature or background of the information.
- As a one stop centre, portal is vital to overcome the problem that has become increasingly challenging the way we use the web.
- The web user always want to surf and easily find the information they seek.
- As the complexity of web sites expands dramatically, web portal is very important to organize the information, normally in a proper list or directory.



Modern Web-based Multimedia Applications



How Wikipedia works

Source : <http://www.istockphoto.com>

- First wiki was created in 1995 by Ward Cunningham
- As an encyclopedia, its information grows where it records thousands of changes per hours.
- Wiki users are free to enter and edit the entry of a particular topics.
- Then it will be saved in the article database.



Modern Web-based Multimedia Applications

- Photo Sharing such as Flickr
- Video Shcaring such as YouTube
- Blog System – a digital online diary where you can type in an entry.



Web-Based Applications

E-Learning

- E-Learning or Electronic Learning is the delivery of learning materials over the web whereby the storage, maintenance and administration of the materials are on the web server.

E-Commerce

- The mushrooming growth and popularity of the WWW has motivated companies to use internet as a medium to promote and sell their product or services virtually.

E-Government

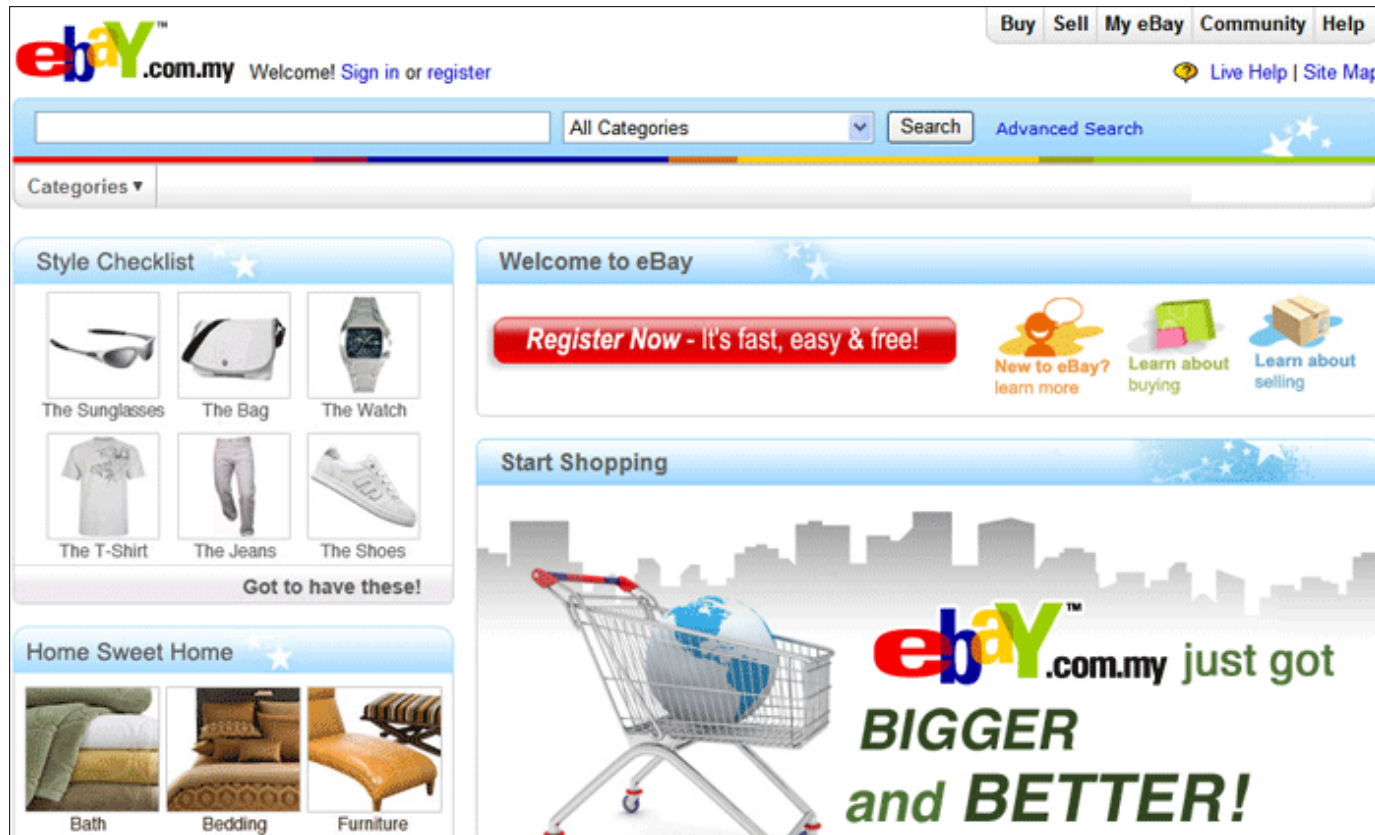
- E-Government (EG) is basically the usage of information and communication technologies (ICT) by a government organization to support their service to the citizenry in the online environment.

E-Entertainment

- Electronic Entertainment or E-Entertainment services are deployed and delivered through the internet.



E-Commerce



Source : <http://www.iebay.com.my>



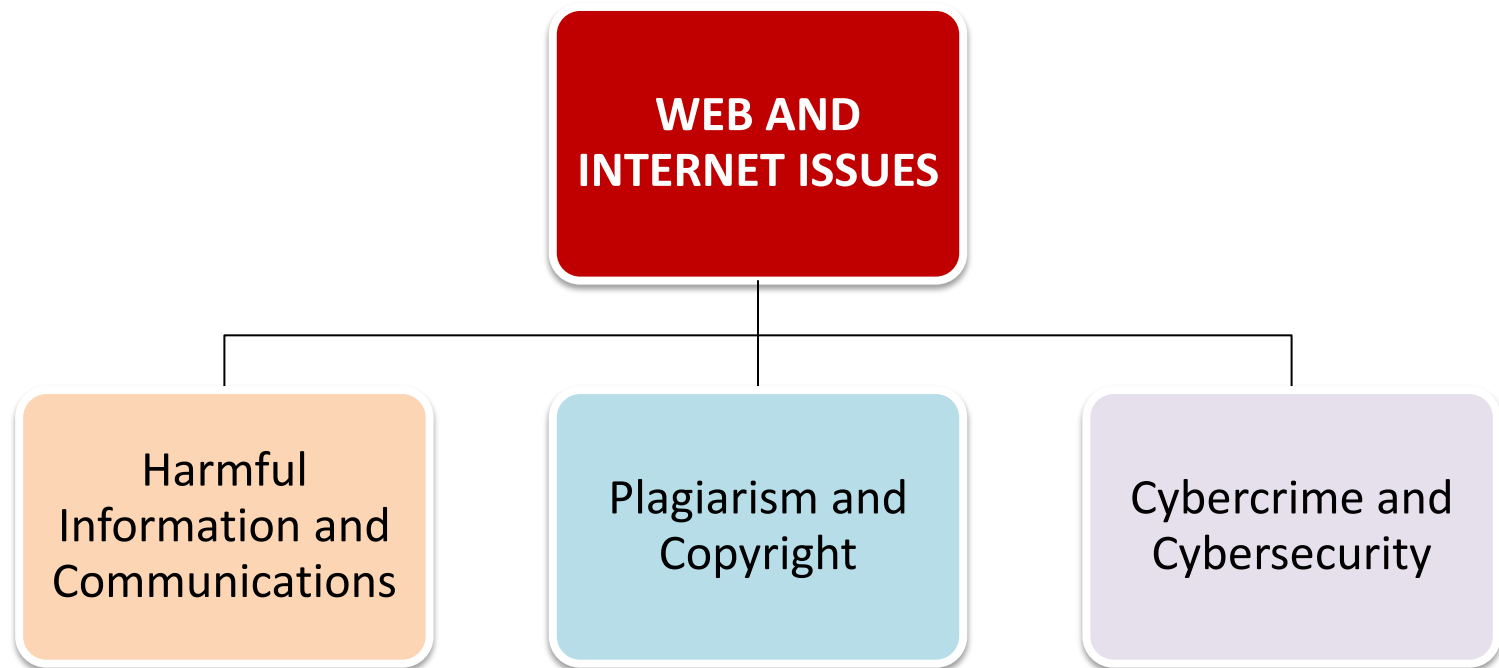
E-Government

Country/Government	URL
Malaysia	www.gov.my
Australia	www.australia.gov.au
Canada	www.canada.gc.ca
Singapore	www.ecitizen.gov.sg
United Kingdom	www.direct.gov.uk
Indonesia	www.indonesia.go.id
Brunei	www.brunei.gov.bn
New Zealand	www.newzealand.govt.nz
Philippines	www.gov.ph

E-Goverment Websites Address



Web and Internet Issues



Web and Internet Issues

Harmful Information and Communications

- Internet can be easily misused for harrasing someone
- Some of the information available on the internet are ambiquous and cannot be totally accepted.

Plagiarism and Copyright

- Plagiarism is defined as the act of taking another person's ideas and then using them as one's own.
- The availability of enormous quantity of electronic text existing on the internet has made plagiarism much easier.

Cybercrime and Cybersecurity

- Cyber misconduct such as hacking and fraud.
- Various internet scam and cheating pact
- Fake websites and e-mail (including spams)
- CyberSecurity Malaysia (formerly known as National ICT Security and Emergency response Centre - NISER)



Summary

- Web portal is an access point of the Internet information that offers various type of information, database and applications.
- E-Learning, e-commerce, e-government and e-entertainment are the examples of web-based applications.
- Some issues on the Web are:
 - Harmful information and communications.
 - Plagiarism and copyrights.
 - Cybercrime and cybersecurity.

