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(Study materials)

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UNIT – 2 : OPERATING WEB

PROJECT MANAGEMENT – WEB BASED APPLICATION DEVELOPMENT

Web based application development involves the process of developing web applications is a program that is stored on a remote server. It is online and delivered over the Internet through a web browser interface.

A project is a task is undertaken to create a unique product, service, or result some of the key characteristics of a project are as follows:

- ❖ A project has a beginning and an end. The extent of the project is defined. It has boundaries.
- ❖ A project requires finite resources that are required to complete the project.
- ❖ A project has a specific time frame. It has a definite beginning and end dates.
- ❖ A project is complete when its end objectives are achieved. The objective is specific and identifiable.

PROJECT ESSENTIALS AND TIPS:

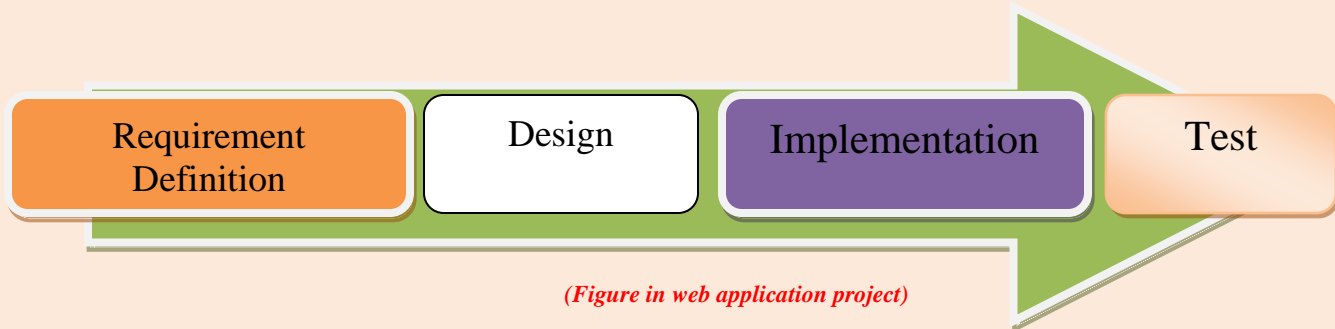
You have learned about so many different web applications in the previous sections. In this section, a structured and simplified process is described for the development of web based applications. Let us discuss how are created web applications.

PHASES IN A WEB APPLICATION PROJECT

Web application project is process of application is broadly categorized in four phases. During the development process, one needs to follow the following four main phases of development:

- ❖ Requirements Definition Phase
- ❖ Design Phases
- ❖ Implementation Phase
- ❖ Testing Phase

A project plan lists the activities that are required to be monitored during project execution. For each activity information useful for its monitoring is defined, like, duration, costs, schedule, resources required, and risk involved



For developing web based applications, we discuss all stapes to be performed during the four phases of development.

1. **Requirement Definition Phase:** In this phase we identify the problem statement for which the web application is to be developed. Identify the scope of the problem. The following issue addressed in this phase.
 - a) Feasibility
 - b) Scope
2. **Design Phase:** The focus is on “how” the application is to be designed. This consists of design of:
 - a) A Map of the Web Application Site:- It contains essential information about the structure of the site
 - b) Database : - Design the application database
 - (i) Identify the database tables that will be required in the application
 - (ii) Decide the table structures: For each table we need to identify the attributes of the tables, their data types, the size of the columns in tables,
 - c) Page structure: Design the structure of page. Identify the main sections of the page like header.
3. **Implementation Phase:** Create backend database, Frontend and the connectivity between them.
 - (i) Backend database :- Create the database write SQL code defining tables, attributes and relationships.
 - (ii) Front End : - Develop the front end of the application as per the requirement. Use the page Structure and the Page Layout you defined in Design phase to implement the front end code.
 - (iii) Data Connectivity: In this data connectivity between the Front-End interface and Back-End Database.
4. **Testing Phase :** - Testing phase is the complete application (Front-End and Back-End) with multiple samples sets of data. Test each page of the application and test each feature of the application. It is fixing an error involves modifying the code, validate the modified code also. After final validation, the application is ready for release.

First of all, let me tell you this topic is about how to web design on the Internet, If you have not understood then I will try a video clip so that you can understand it.