ASSIGNMENT-01

1. WHAT IS AJAX? ADVANTAGES OF AJAX.

AJAX STANDS FOR ASYNCHRONOUS JAVASCRIPT & XML.IT IS USED FOR CREATING FAST AND DYNAMIC WEBPAGES.

IT IS USED TO COMMUNICATE WITH THE SERVER WITHOUT REFRESHING THE WEB PAGE AND THUS INCREASING THE USER EXPERINCE AND BETTER PERFORMANCE.

IT ALLOWS WEB PAGES TO BE UPDATED ASYNCHRONOUSLY BY EXCAHNGING DATA WITH WEB SERVER BEHIND THE SCENES.

ADVANTAGES:

* + USER FRIENDLY
  + ENHANCES PERFORMANCE
  + IMPROVES RESPONSE TIME

1. WHAT IS JSON? WHY DO WE USE JSON?

JSON (JAVASCRIPT OBJECT NOTATION)

JSON IS PURELY A STRING WITH SPECIFIED DATA FORMAT, IT CONTAINS ONLY PROPERTIES.

IT IS A TEXT FORMAT FOR STORING AND TRANSPORTING DATA.

IT IS COMMONLY USED FOR TRANSMITTING DATA IN WEB APPLICATION (FOR EXAMPLE: SENDING SOME DATA FROM THE SERVER TO THE CLIENT, SO THAT IT WILL BE DISPLAYED ON THE WEBPAGE)

3.WHAT IS JQUERY? ADVANTAGES OF JQUERY.

JQUERY IS JS LIBRARY. IT SIMPLIFIES JS PROGRAMMING.

JQUERY WRAPS MULTIPLE LINES OF CODE INTO METHODS THAT CAN BE CALLED WITH A SINGLE LINE OF CODE.

ADVANTAGES:

* + IT HAS THE ABILITY TO MAKE THE CODE SIMPLE, CLEAR, READABLE AND REUSABLE.
  + IT ENABLES DEVELOPERS TO WRITE JS FASTER AND EASIER.
  + COMPRESSES THE MOST COMMON JS ACTIONS INTO FEWER LINES OF CODE.
  + SIMPLIFIES COMPLEX OPERATIONS SUCH AS EVENT HANDLINGS AND ANIMATIONS.
  + WORKS WITH MULTIPLE BROWSERS.

4. WHAT IS NO-SQL DATABASE? EXAMPLES.

NO-SQL ARE THE NON-TABULAR DATABASES AND STORE DATA DIFFERENTLY THAN RELATIONAL DATABASES.

IT EMERGED IN LATE 2000S.

IT PROVIDES MECHANISM FOR STORAGE AND RETRIEVAL OF DATA.

IT IS GENERALLY CLASSIFIED INTO 4 MAIN CATEGORIES:

* + DOCUMENT DATABASES
  + KEY-VALUE STORES
  + COLUMN FAMILY STORES
  + GRAPH DATABASES

EXAMPLES: MONGODB, COUCHDB, COUCHBASE

5. WHAT IS HTTP STATUS CODES? WHAT IS THE MEANING OF 401, 403, 404,500 STATUS CODES?

HTTP STATUS CODES INDICATE WHETHER A SPECIFIC HTTP REQUEST HAS BEEN SUCCESSFULLY COMPLETED.

401: UNAUTHORIZED RESPONSE: IT MEANS THE CLIENT REQUEST HAS NOT BEEN COMPLETED AS IT LACKS VALID AUTHENTICATION CREDENTIALS FOR THE REQUESTED RESOURCE.

403: FORBIDDEN RESPONSE: INDICATES THE SERVER UNDERSTANDS THE REQUEST BUT REFUSES TO AUTHORIZE IT.

404: NOT FOUND RESPONSE: INDICATES THE SERVER CANNOT FIND THE REQUESTED RESOURCE.

500: INTERNAL SERVER ERROR: IT MEANS THAT THE SERVER HAS ENCOUNTERED AN UNEXPECTED ERROR THAT PREVENTS IT FROM FULFILLING THE REQUEST MADE BY THE BROWSER OR THE CLIENT.