**Interview questions - asked to me**

MVC  
 MVC life cycle -> Request>Routing table>Controller INtialization>ActionExecution>Rendering view  
 How will you apply filters in MVC  
 Strongly typed view in MVC  
 Can we send model to view  
 Can we send file as ActionResult  
 Types of Filters  
 Types of Routing  
 what will be needed for Attribute Routing  
 How will you use different name for Action Method - yes with the help of Action Name attr  
 Which Filter will be executed first   
 View data and View bag difference  
Entity Framework   
 How will you get the data from emp table from DB  
 Lambda exp to get emp id =100 data  
 First vs FirstOrDefault  
 Single vs SingleOrDefault   
.Net core  
 How Dependency Injection will be implemented   
 Configure Services?   
ADO.Net  
 How to call Stored procedure  
 2 SPs there one returns nothing and other returns some data - what to be called  
 Execular Scalar, Non-query and   
SQL  
 Execution plan in SQL  
 Joins inner join and left outer join  
 SP performance improvement  
 SP vs functions   
 SP -> 0-many resul, can use txn, in and out param, can't used in select/where/having clause, can call func inside SP, try used  
 Func -> 1 result, no txn, only input param, can used in select/where/having clause, can't call SP inside fun, try block can't uesd  
 Composite Key -> Primary key with more than one column involved  
 Index - types? Clustered and Non clustered  
 Clustered -> one per table, faster, less memory,   
 Non- clus -> multiple, slower than clust, more memory as separate storage to store the index  
 How many clustered index for a table? one but can be with multiple columns  
 Triggers -types  
 Views --> simple and complex view, Materialized view will update table data  
 write query to find even/odd number rows based on id --> use modulo for id column/Rownum column)  
 Query to Join tables (inner vs left outer join)  
 Query to get India at the top of the list from Countries table  
 Delete duplicates from a table  
 truncate and delete --> Truncate (DDL) faster, removes all records, less logs, Delete(DML)  
 normalization and denormalization  
 sql injection attacks -->(Union, Error) prevented by using SP, parameterized query, input validation  
 DDL, DML, TCL?  
 RowNumber, Rank and DenseRank --> RN(with or w/o partition), Rank(unique num but not continous), DR(same as Rank but conti)  
 ACID properties --> used by SQL - Atomicity(no partial txn), Consistency(guarntee of txn) , Isolation(Independent txn), Durability(data never loss)  
 CAP properties --> used by NoSQL - Consistency(same data at same time), Availability(every request recieve response), Partition tolerance(sys continues to perform)  
WebAPI  
 How JWT token works  
 HTTP verbs GET vs Post vs Put  
 GET -> can be cached, params remains in history, restriction on sending data to 2048 char, ASCII not allowed, less secured, data will be visible in url  
 POST -> can't be cached, params not stored in hisstory, no restriction on data size, all char even binary allowed, little safer than GET, data not visibe in url  
 PUT -> idempotent i.e unchanged or unaltered response u will get, unsafe and used for modifying data  
 Rest vs SOAP  
 REST -> it is a statndard not a protocol, uses url, http, json and xml, more efficient, no build in error handling or security  
 SOAP -> it's a protocol, uses http and xml, efficient but not as REST, build in error handling and security mechanism  
 Stateless and Stateful services  
 Stateless -> REST API are always stateless, no need of remembering prev request details  
.Net   
 Managed and Unmanaged code  
 Reference type and value type, is string value type?no  
 String vs StringBuilder  
 how to read string from Stringbuilder -> .ToString()  
 Readonly and Const difference -->RO can be decalred runtime, Const only on compile  
 overloading and overriding  
 virtual keyword  
 async and await   
 await in Main method?  
 try catch - final?  
 try without catch? yes, with just finally  
 Sessions in Asp.Net  
 Different types of cache  
 Write a program to find second largest num in an array  
 Write a program to create multidim array from single dim array  
 Abstract and Interface  
 Can we have method with virtual keyword in Abstract class  
 Interface - Access modifiers  
 var and dynamic keyword   
 ASP.Net identity?  
 Call stack and Stacktrace   
 IEnumerable vs IList vs IQueryable vs ICollection  
 Static and private construtor   
 other way(other than Sealed keyword) to restrict a class to inherit from - use private construtor  
 ref and out parametrs  
 Convert.ToInt vs int parse  
 Array and List  
 Finalize and Dispose -> Finalize is implicit we can't invoke  
 Linq and Lambda  
 Web exception  
 Delegates and events  
 Types of classes  
 Multi threading  
 Task vs Thread vs Process  
 GAC - Global Assembly cache ->.Net Assembly shared by all applications executed on a system  
.Net Concepts  
 Design Principles - SOLID  
 Design Patterns - types - Singleton, Strategy  
 Repository Pattern  
 Lazy Loading  
 Thread Safety  
 Circular referencing  
 Garbage collection  
 Reflection  
 how to handle huge number of hits at a same time in a website  
 Architecture - SOA, Onion, Clean  
Jquery  
 Async and Await  
 Promise  
 Callback method? why we need?  
 Alternate to callback method?  
 Ajax  
 Server side and client side functions?  
Azure  
 Service bus   
 Key vault  
 App Insights - Auto scale?  
 Functions   
 Types of triggers in Functions  
 Scenario - from a file to process each row and send a mail - what are the Azure components required?  
 Azure Kubernetes  
 SSO?  
 Azure AD?  
 Queues and Topics   
 Azure traffic manager  
 how scerets maintained - Key vault  
 user and system generated scerets  
 throw and throw ex  
 Resources  
Requirement Gathering  
 Scenario - to build a App to reserve meeting hall  
Diplomatic questions  
 Challenges that you faced in your projects and how you solved them  
 When an issue reported, how will you identify and resolve it  
 What will you expect from an Organization   
 What will be applicable for working as Team or individual