* ADO . NET * of book non real mouth of

Front ENd Application:

the Application With Which End usen Will Interact is Known as front End Application.

Ex: 1. Banking Application

- 2. Kestaurant Application
- 3. ATM Application
- 4. SHIGGY Application. to ell to eight places of

front End tools ? The Softhane that is used to develop front End application is known as front End tools.

Ext 1 for proper of a stand word and adoptions and

- 2. Ms access ... and souther the second of the second
- 3. Visual basic
- 4. Power builder
- 5. net
- 6. Java
- 7. Phython

Back ENd Application:

* The Application Where orginal data is stored is Known as Back End Application.

Ex: Customen data, user details and Mails in case of Mailing Application.

Back End Tool:

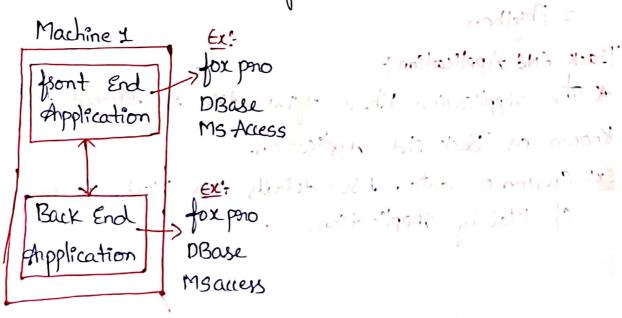
The Soft-Harre that are used to develop back End Application is known as back End tools:

ADD NOT 4

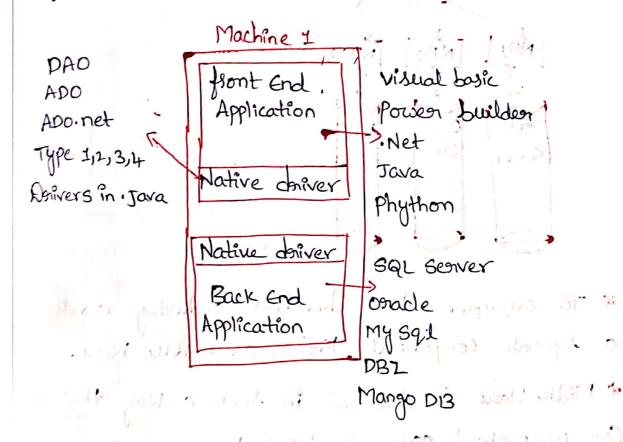
- 1. database mi dalli mil molicioni inti
- 2. fox pool of the book
- 3. Ms-access
- 4. Sql Server
- 5. oracle
- 6. My Sq.L Etc...

* In Early days of the Application development both frontend and backerd Application Were developed Using same tool and of present in single machine. Iso Ahr both front End and backered Application Were develop in same technology in single Machine no seperate translation Medium is nequired.

front and backend Were able to communicate With Each other Easily.

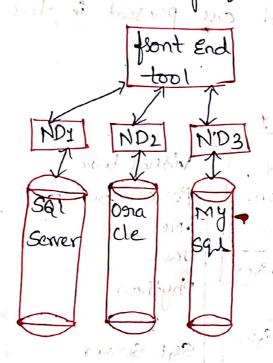


In the above sensorio there was a drawback that When back End Application whos prequired to connect from multiple front End Application of multiple client Machines. it was not possible. to evencome this drawback, so, both front End and back End Application where developed using different technologies and one present in two different Machines.



Application are developed using different technologies front End Can't understand back End and backend Can't understand back End and backend Can't understand front End. So, for this purpose notive derivers one developed as a teranslatory Medium.

Matine derivers that every front End tool should have separate set of native derivers for Every back End tool should have one separate set of native derivers to Interact With Every front End tool like:

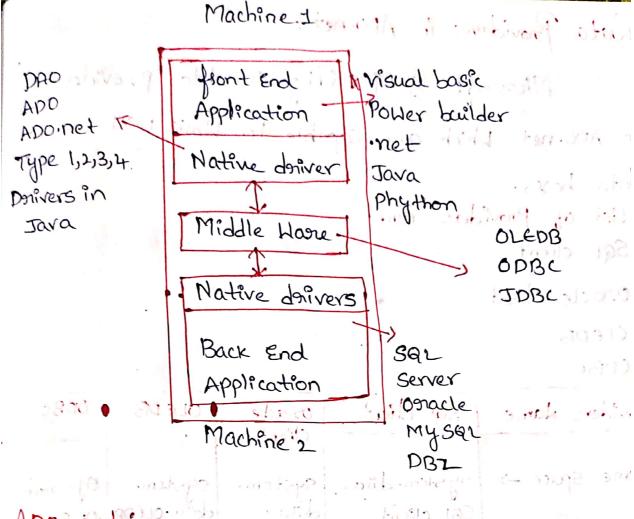


a seperate component. Known as middle Ware.

Middle Ware is developed in such a Way that it Can understand only front End tool and any back End tool.

and end control from sed so, for this progress and sometimed the sed so the state progress and sometiments and sed or the sed of the sed or the sed of the

application are developed using ad flower thertweeters a



ADO net:

ADO net is the Native driver developed by microsoft foor dotnet. Which is used to Interact With database of middle Hasie.

* ADO. net Means Active-x data data object tos

DAO -> data active object

ADO -> Active-x data object

There done

the name space for net is system. data.

Data Providens in ADO-net:

Microsoft is providing 4 data perovidence. in ADO. net Which one. Capable to Work With data bases.

List of Providers ane

1. SQL client

2. Oracle client

3. OLEDB

4. OPBC

Name space -> System. data. System. system. data. oceos ODBC Data base Connectivity -> Will Work With Will Hork Will Hork Hill Hosk	2		1000 Mgg	A	
Name space -> System. data. System. system. system. data. ocens opac. Data base Connectivity -> Will Work With Will Hork Hill Hosk Will Hork Hill Hosk Will Hork Hill Hosk Will Hork Hill Hosk	Moviders Hame	sal client	William Co.	OLEDB	ODBC
Data base Will Work With Will Hork Will Hork Hill Hosk Connectivity -> Connectivity ->		1	Client]4 .	
Connectivity -> Mill Work Will Work Hill Hosk Will Hosk Hill Hos	Name space ->		data.	. ()	OPBC:
only database base.	Data base (Connectivity ->		With oracle	With Any	Hill Hock HI Ang data-
Code mechanism Managed Managed unmanaged unmanaged unmanaged unmanaged code code	Code mechanism Used ->		Managed	unmanaged	wimanoge
Execution -> faster faster slowest slowest		faster to	faster	Slowest	Slowest
	Internal Anchitecture	Easy	Easy	complessi	Most

object Name: Classe's) Names : 1. Connection > Sq. L. Connection | obacle Connection | obacle Connection | obacle Connection | opac Connection | opac Command | obacle Command |

- 3. Data Reader -> Sql data Reader | Oracle data Reader | OLEDB Data Reader | ODBC data Reader.
- 4. Rata Adaptor -> SQL A data Adapter oracle data Adapter.

 OLEDB data Adapter ODBL data Adapter.
- 5. Toransaction -> SQL Toransaction/oracle Toransaction/ OLEDB Toransaction/ODBC Toransaction.
- 6. Command -> SQL Command builder ossade command
 Builder | OLEDB, Command builder | ODBC
 Command Builder.
- 7 Parameter -> SQL parameter oracle parameter.
 OLEDB parameter ODBC parameter.
- & Rata set -> Data set
- 9. Connection stoling builder Horking With Connection Object:
- * Connection object is susponsible to Establish the connection With database.

 * Other than Establishing connection to database.

 We can't use connection object to other proposes.

Methods Working With Connection object: egistolose compatible matheman for so astronger (ii) Change data base (storing DBHame) (m) Open & grammer of ma (Insumo) is premis close: This Method is used to close and opened Connection to the data base (10 Change in slow of objects which is to convertently is told. This Method is used to switch to other database after Establishing the Connection & Comment (iii) open: This Method is used to send a snequest from front End Application to database and used to Establish the connection to the database. Peropenties With Connection Object :ciens peranter long Connection Storing Connection Time out Lata Source Connection Stains builder Rata base dishing with consertion object . State Connection Staring: Lucanopus is topla not some used to set of get grequired connection storing Value Which is used to Establish connection to the data base with it troppe with some and than all

Connection Time out : into provide the stack

Used to set of get the time peniod in Second that front End Application should Wait once neguest is send to data base

default time out period is 15 seconds.

data Source Humand line . muse - prints sugar prints

Used to set on get the data source name i.e. Server name to Which Connection is nequined to be Established.

data base :-

Used to Set of get the nequired database name to Which connection is Established.

static:

Used to get to Know What is the current state of the connection all these states are available in an Grumeration Known as connection state like

Connection state connecting Executing Fetching open

Example to connect to SQL Server data base:

* Coneate a new Windows form application then

design the form.

Connect

(C) 11390 O)

Whatte the following code: amil not some Using System. data. Sql. client; Storing Sq. LCon Storing = "Server = SAI-BHANUI SQL Servery User Id = sa; password = abc@123; databose = Employee DB; Sql connection con = new sql connection (sql con string); Con. open () if (con. state = = connection state. open) Message box. Show (" connection is successful"); Gomection Storing ! Server = Server Name; user Id = user Name; password = user. Passhold; Database - database Name; commention them as consider state tite mayare & ے طاقعیط . Connecting prition ? britists 4 mogo d

do base