ADVANCE -JAVA-THEORY

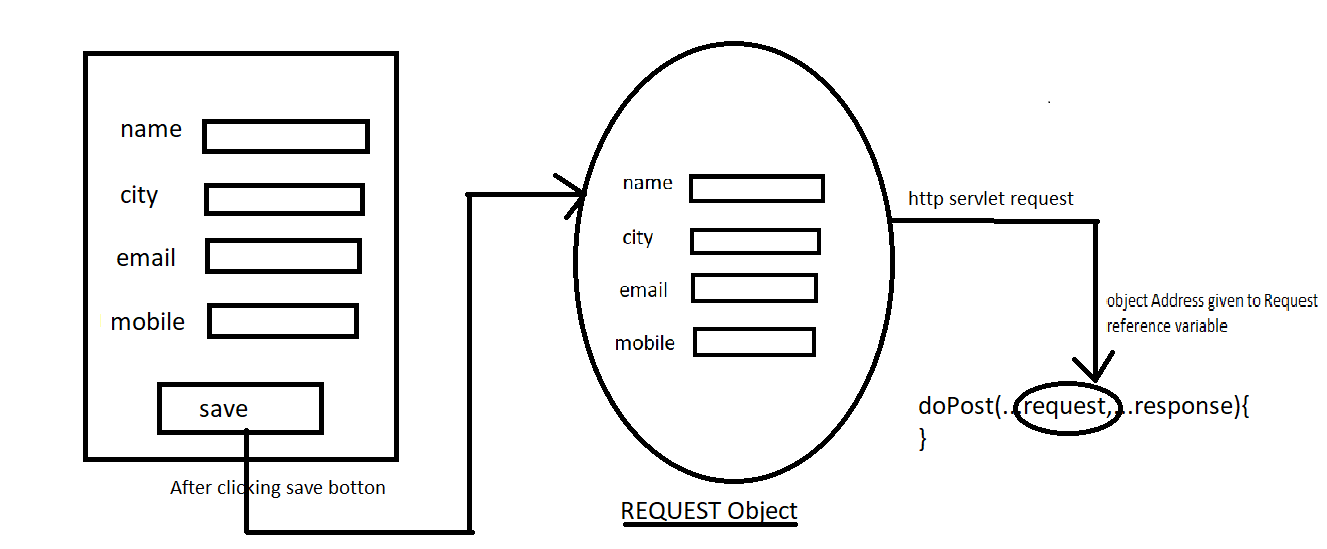
ADVANCE JAVA

1. Steps to create web application(without SQL & JDBC):

* Step 1 (installing tom cat):
  + New 🡪 others→ servers → Apache→ tomcat 9
  + Download tomcat → download zip→ unzip
  + Select tomcat on specified version in eclipse→ browse → tomcat → open until bin is found→ select → java jdk 1.8→ finish
  + Right click on server in bottom down section near console and start the server, or just click green play button.
* Step 2(dynamic web project):
  + Right click → dynamic web project instead of java project →name → web\_app\_1→ dynamic web module version (by default 4 if it wont work use 3.1).
  + Always create html files in src/main/webapp → new → other→ html→ file name→ (newRegistration)→ finish.
* Step 3(servlet):
  + Src/main/java → right click → others → servlets→ name→ (newRegistration)→ delete all comments.
  + Note: always use tomcat 9 in 2021 version as there are some problems with ver 10.
  + Note: @WebServlet("/newRegs") this should be same as that of the name which is present in form action.
  + Note: request is a reference variable which points to request object where all the data is stored as mentioned in the form.
  + Note: in html we use name attribute in input tag as it is similar to variables it stores variables and those can be used in backend.
  + Note: request.getParameters(“(city→ as it is written in name attribute in input tag inn html)”)
  + Here we use post method to send data to the sql so write all these code in post method in servelets.
  + Note: constructing login page using tables→ form→ table→ (tr→ td→td)\*4

1. Concept of POST/Get Request:

* Request is a reference variable where it points to request object where all the data is stored (i.e., the name attribute things with input present in html file).
* Serialization implementation is happening in the background.
* Concept:



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* Step 3(SQL Query):
  + Create sql database in MYSQL
  + Create database 4pm\_demo\_db\_1;
  + Use 4pm\_demo\_db\_1;
  + Create table registration(FirstName varchar(20), city varchar(20), email varchar(20), email varchar(20), mobile varchar(10));
  + Select \* from registration;
  + insert into registration values('Pankaj', 'Bangalore', 'pankaj@gmail.com', ‘9496415549’);
* Step 4 (Copying SQL connector):
  + Copy SQL connector file and paste in src/main/webapp/web INF/lib.
  + Note: always write 🡪 Class.forName(“com.mysql.jdbc.Driver”); before establishing connection.
* Step 5(servlet):
  + Src/main/java → right click → others → servlets→ name→ (newRegistration)→ delete all comments.
  + Here use same Connection 🡪 Statement 🡪 request.getParameters(“(\_)”)→ assign it to variable and use ‘”+var name+”’ to give into SQL Query inside stmt.updateQuery(“”);
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1. Servlets:

* Servlets is a java class.
* It is a subclass of HTTP servlets, it is used to perform Back-end coding of the application.