Assignment no :-   07

Topics covered :-
   - RIA + Characistic + Advantage
   = AJax and Design pattern
   - Jouey framework

Date of performance :-   7-10-22

Evaluation Criteria	Marks (out of 3)	Date	Signature of Instructor
Punctuality	03		
Problem solving technique	03	20/10/2022	
Attainment level (out of 3)	03		

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Q.1 , What is RIA? Explain ty charactersHCor RIA along with advantges of RIA?

i) - RIA's are web cerrications that have most of ty Characteristicot desktop cerrications, typically delivered through web-browser puly -ins or independently via sandboks or virtual machines.

ii) - RIA's have always been asout the user experience, it enhuncing ty end-user experience in ditterent way.

iii) - RIA's can run truter and a more enganing. They can offer users a better experience, better accessibility, usability and more interactivity than trunditional browser cerrication that wer ony HTML & HTTP

iv) - RIA's can perform computing on both side ele (lient side and serverside

v) - RIA is devetoped using various technologies such as JAVA, JAVaFX, RESTIWS, etc

• Characteristic of RIA :

① Performance :- RIAs can often perform cetter than trualtiony cerrications on ty Goris of ty charactersutie of network and cerrications, pertorance of server also improve by offcoualing possible procesing work to client system.

② Offline use :- When connectivity is unavailble, it might still be possible an RIA. An RIA platform let the user work with the application without connecting to the internet and synchronizing it automatically when the user gets live

③ Consistency of look & feel : With RIA's tool use interface and experience ~~without~~ and especial experience with different browser, devices and oprating system can be more carefuly controled & made consistent consistent

④ Security :- RIA's should be as secure be as any other web application, the framework should be well equipped to enforce limitations

⑤ Advance Communication :- Communication with supporting servers through optimized network protocols can considerabcy enhance the user experience.

⑥ Rapid Development : An RIA framework should facilitate rapid development of a rich user experience through its eny to user interface in ways that help developpers

⑦ Better feedback :- RIAs can providing the user with fast and accurate feedback, real time confirmation of action.

⑧ Improve feature :- RIA's allow programmers to improve the functionaly usiy modern development tools

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• Advantages of RIA's

① Responsive website :- it make the functioning 10 communication of user's computer and web appl° servr at high pare, which result result speed data processing high.

② Easy to mobile Access to information :- The majority of mantaining Business models can possialy gain advantyes from mobile acon. with help of RIA'. adminstreter & supervisor can have instant access to the critical information without cutting to a workstation

③ Better visulization :- In the Business model data visulization important part. RIA's lee con getter visulization data possia it heip to improve business model

④ synchronization & crossmerix RIA appeication facilitis. Merts item-stachronization. with this feachr the mantaum con save revenue though synchronization

⑤ User - Experience :- RIA's is popular for ib one-payee application which reduces the field clicks made on the web pages 20 minimizs the waiting time

Q2) What is AJax, Explain design pattern of AJax.

- AJax is acronym for Asynchronous Javascript & XML. it is group of inter-related technology like Tavascript, Dom, XML HTML, XML CSS, XMLHTTPRequest, etc

- AJax alloo you to send & recive data asynchronously without reloading the web page so it is fast
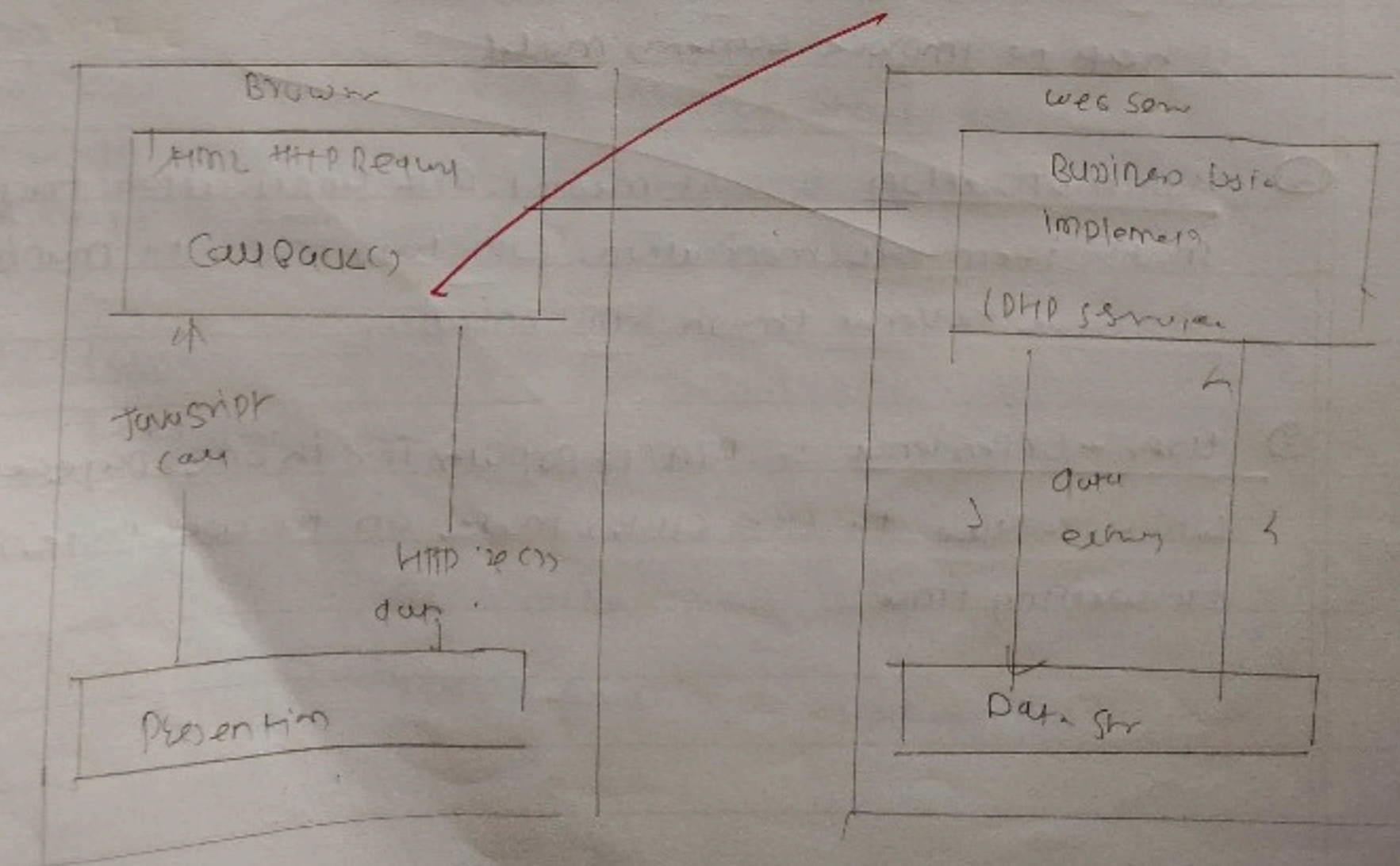
- AJax allow to you to send only important information to the server not the entire page.

where use :-

Then are too many web application running on the web that are using ajax technology like gmail, facebook, twitter, google map, youtube etc

technology work

- HTML

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2)

What is AJax. Explain design pattern of ajax.

→ __AJax__

As you can see in the above example XMLHTTP pattern object play a important role

① User Send a request from the UI and javascript call goes to XMLHttp Request object

② HTTP Request is sent to the server by HTTPRequest object

③ Server interact with the database using JSP, PHP, servlet, ASP.Net

⑤ Data is setting

⑥ Server send XML data or JSON data to XMLHttp Request Callback function

⑦ HTML & css data is displayed on the browser

③ What ~~Java~~ JQuery framework using ajax.

= <u>AJax</u> - Asynchronous Javascript and XML

In - AJAX is about loading in th background & display on th web page, without reloading th whole page.

- JQuery is a fast and ~~flexible~~ concise Javascript library created by John Regisn in 2006

- Th Purpose behind developing a Jquery was to make it easir to use ~~and~~ Javascript

- Jquery simpilifis HTML document travescelety, event handlli, animatiny, and AJax interaction for Eapid web application developm

- Th AJax() method in Jquery perform AJax requst. it seny asynchronous HTTP requet to th sem. Jquery provide a rich set of AJAX method for developin web appeicution. it is ~~better~~ used for Equet

<u>Syntax</u>

$ ajax ({ name : value ; name : value; --- }}

Example 01 :-

Steps to understand the use of [ajax()] method

① 1st. download jquery library or Any of jquery is later version
② 2nd we need to create HTML document, including the jquery library.
③ then within <script> tag write a jquery setup function, and write the ajax() method in the body. How we can pass the parameter to the ajax() function. we must have to include the URL to send the request s the field property. After URL, we can set any optional property such as type, async, cache, success, error, complete etc to the ajax function.

in   <h1> Hello world <h1>
      <h2> welcome to jquery <(h2>

<script type: text(javascript)"" src = https://ajax.google.apis.com/ajax/lics/jquery/2.1.3/jquery.min.js" >