gr) unat are the characteristics of Rich: Internet application (RIA)? =70 Rich internet applications are web-based applications that provide a rich and engaging user experience. en They are typically built using technologies like HTMLS, CSS Javascript, AJAX or juameworles like React; Angular, Vie. 3 characteristics of RIA: (i) Enhanced interactivity a) RIA's provide a highly interactive user experience with features such as drag and drop and real-time user jeedback without requiring full-page reloads (ii) Improved performance (a) RZAs use asynchronous data allowing the application to jetch only the required data from the server iii) Dekstop-like user intergace @ RIAs mimic the look and jeel of desktop applications

No Cross platform compatibility

O RIAs are designed ensuring compatibility

across different operating system and various derives.

Offline functionality

a) Many PIAs can function partially or

11. 1011ine, allowing users to access a

ithout an active in

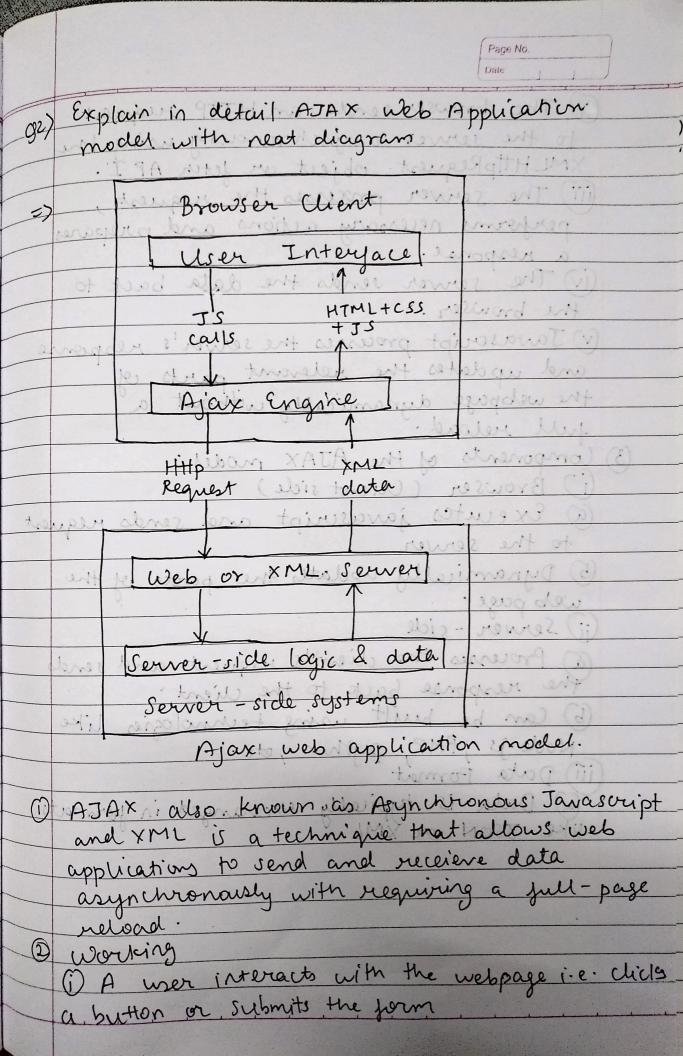
July offine, allowing users to access data and edit data without an active internet

connection

(vi) Asynchronous communication a) PIAS use technologies like AJAX on WebSocket for asynchronous communication with server (vii) Rich media supposit (a) RIAS can handle and display multimedia content like audics and videos. (viii) Scalability & flexibility

(a) RIA's are highly scalable and plexible

making them suitable for applications with dynamic user bases: (ix) conhanced security a solver 2'AIS Co (a) Modern RIA's implement security mechanisms to protect user data. (x) Reduced server load @ RIAs perform many computations on the ward client side instead of server -side: 1900 allowing the application to Jeth only the



(ii) The browser sends an HTTP request to the verver as ynchronously using the XML HttpRequest object on Jetin API. (iii) The server processes the request, performs necessary actions and prepares (iv) The server sends the data back to the browser 220+JMTH (v) Javascript processes the server's response and updates the relevant parts of the webpage dynamically without a full reload. (3) Components of the AJAX model: (1) Browser (Wient side) a Executes javascript and sends request to the server. (5) Dynamically updates the parts of the (ii) Server - side (a) Processes the dient's request and sends The response back to the wient (b) can be built using technologies like Node js PHP, python, etc. (iii) Data Format a) Data is typically exchanged in formats

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