Aaryan Kalshr DISB-26

Higher

MPL Assignment - 2									
refire progressive uebApp (PWA) and explain its significance									
	in modern web development Discuss the key characteristics								
	that differentiate . PWA'S from traditional nobile apps								
	A progressive wet App (PWA) is a type of such application								
	that works like a mebile app but som in browser as It a								
	can be installed on a derive wests offiline and provide								
	a fast and a smooth wer experience								
	Significance of PWA is modern wet development 2								
	- Goss platform compatibility								
	- office support								
	- fast performance								
	- No app stre organised								
	laver due opposit with								
-	Key difference herves PWA 4 traditional mobile type								
	· ·		Traditional Mobile Ages						
	Features	PWA		la					
	- 111	Diel from browser	Download from App Shore	se					
	Installation	IMUM III							
	2 contined	werks office with	Usually requires internet						
	Internet Required	caching							
1			Faster but needs Installation Pt	íĵ0					
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	Peyomance	a charter	7.	ju					
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(2)	anlais it					
Same A.		responsiveness well in the contest of				
	importance in the context of progressive westappose contrast suspensiveres fluid à adaptive west de					
->	Responsive welderign (Rwb) is kelrique that nakes we					
1888	page adjust automatically to diff even some of					
	derices. It enury a good user experience on mal 31					
a de la companya de l	of website.  Tryportance of responsiveness designs in Plot.					
-*						
	Better user experience - pluA? usert smoothly on any device					
	- Faster load time -optimised design improves speed - SEO benefits - Google ranks responsive sixus higher					
-	The effective - No need to suid multiple version for					
	different sovens.					
+	the Comparison of welderign approaches					
MA CLU	Approprie	How Itwork	Bros	Cons.		
	11/11/10/25					
- A. O. A.	Responsivenus	Uses flexible grids	works on	Can be		
		and all media queries	cell. devices	Complex to		
A water as		to adjust layout	tomand (ex	design		
_	quid	Use parent based	works well on	leu contol		
		width enstead of	diff streen	over layour		
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	hi ii	elonents resize smoothly	Emplement	Screens nove efficient		
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Reposive adoubt dynamically to all sowers. Adapthe boad different layouts based on device types. Describe the lifecycle of scruice worker including to registration init allation and cultivation phase Lifecycle of scruice workers. A scruice workers in a script that runs in Lackground and helps a web app work office boad fasker and send push notification. Its lifetycle has three main phase.

Regultration Phase Regultration Phase The browser registers the source worker using Javasoupt. Code Ep:-If E' service worker' (n ranigator) & nouigotor source worker register ('stronjs')

then (1) => console log ('sorrice worker 'registered')) · catch (evror) => console, la (kegistation failed ', error) This fills the brought to Postall and activate the gruice worker. Installation phase The Source werker downloads necessary files CHTML CSS, IS) and story then in cache. If successful it moves to activation phase. Self add Evertistener ('intall evert > 1 event. wait untill FOI ATIONAL USE

caches open (appocache) then ( cache - & return cache add Att ['[/'Endex.htm' 'chyles-chil This ensure the app load ever without intend Activation phase - The old Service worker is suplaced with new one Unused cache files from the previous version are defected Final step fetch × sync One activated the service worker intercepts network requests server cached files and sync days when the Entornet is available. This lifecycle make AWA's faster, more reliable and cepable of working office Explain the use of Indexed DB in the system service worker of date storage Use of Indoxed DB. in Scrice worker for data storage Indexed DE is absouser database that stores large amonts of structured data like joon objects. It helps Pur A's work office by Saving and retrieury data efficiently. why use. Indeped bb. Pr service cogston? Office Support - Stores data when opine and type is lake efficient storage - saves structured data like user setting cost îtery or forms inputs. Faster Arcers - Retieves data quickly without needing a notwork, regress. FOR EDUCATIONAL USE Sundaram

Penusistent Data - Data reppoint saved even after the proposer is desed 160 Sexuice cooxter uses Indexed OB? Opening the database. let db. let regrest & godex DB open C'My databose'); regrest on success = function (even) of db = event target regult; Creating a store le Adding Data. request. onupgradeneded - junction aux) of let dt = event. taget . result;
let store z ds. create 03 ject Store ('users' à tempate: 'id 3)
store. add (d. sid : 1, name: 'John boo', age: 253); Fetching Date in surjee wester. let transaction = db. tranaction ('users' : 'readonly'); let store = tranaction. Objectstore ('users'); let getaser = store get (i). genoers. ON vouen = function () {
conole. log ('git user defail); FOR EDUCATIONAL USE