Aditya Raj

MPL assignment-2.

0,1	pefore progressive web app (PWA) and explain the
	significance in modern web der, differentate PWAs from
	traditional mobile apps.
$\longrightarrow$	A PWA is a neels application that combines both the
	neb and nobile apps to deliver a seamless
	experience. PWA works offine, loads quickly
	and provide an app like experience in mobile.
	features :-
	je platform independence
	ii) Improved performance.
	my offine functionality.
	NY No app store dependencies.
	V) Engaging user experience.
	900,0
ż	key Characteristics:-
	iy installation: - Installed from browser, paditional
	mobile apps downloaded from mobile apps.
	ii7 offline support.
(*	ii7 offline support. juig appares and performance.
	PWAs are faster due to eaching and lightneight arress.
	arrels.
92)	Define responsive neb design and explain its impostance
	in Contest of put. Compare responsive;
	Define responsive neb design and explain its impostance in Contest of purt. Compare responsive; fuid and adaptive neb design approach.

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			1			
<del></del>	The an	approach that ex	41201	agus a dant to		
- 9	different cescen want and allertalism					
	The an approach that ensures web pages adapt to different series signs and orientations using flexible grids.					
y 5.						
	différent dentces.					
	different denices.					
2 2	· Colonais reed for muliple codebases for different devices.					
	different devices.					
	e Enha	noes usability b	the makein one	18 hl 9 2 2 2 4 1		
	0	nces usability b		arria seachable		
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			000	Adaptive		
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TAX.				different Sereers.		
	Plexibling	Highly flexible	Completely.	fixed al-		
	<i>U</i> a a		flexible	Specific brokons.		
	ferformance	Efficient but	Smooth	may cause		
		rquires more		layout Shifts.		
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	Best	website and	App sequires	verbste with		
	use	purity	Seamlers	predefied		
	Clase		Scaling	layout.		

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Describe the lifecycle of service workers, including tistallation and activation frances. lifetycle Phases:iy seguipation. if ('service worker' in rangapor) {

navigator. Serviceworker. register ('|sw.j's')

inen (1) => console. log ('service worker

segistered') sogistered') ily Installation occurs when the service worker is first downloaded eg: - self, add Eventhisteners ('instau', event-=> } event wait Intill caches open ('v') then cache =) { Letwin Cache & All ilix Activation Runs after installation and engures old cached cleared if necessary

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eng =) Self-add Feverthisserver ( actuali, Everts) } overt wait until ( sacres keys (), men (keys=) {

seturn promise, all [keys filter (key=)

key (= (v')] 7); V) fetching and updates The service worker intercepts network sequire eg self addirent Listerer ('fetch', events) } event seppond with cache notel (even- request), ~); Conven the use of indexed database in the Service worker for data storage. Indexed OB is a low level NOSQL dotalase, in the browser anous web pages to store and reprieve. if offline Storage: - series users when offline.

I') persisent data: - unlike local storage,

indexed DB is asychronous. it later.

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