Name: SHREYAS NAK Rall up: 38 MV: DISB MPL Amgnment 2 on moderne web development viscum the key diamacheristics that differentiate PWAS from teaditional moloile apps A perigneinne web App (PWA) in a type of web applications
that larrerages modern web technologies to provide au app line experience ou web. Pas composhe the best features of readinional web are and native matrice applications, aftering Preferenced terformance offline capalialités, enhanced more engagement. Significame en moderar Web Development cess-person compatibility: Service nearless allow colling evaleting PODES to prinction office at 92 1000-vetueous Imperared Performance: PWAs utilize caclify steeregies to load favier town teaditional well pages. SEO feverally: Orlika native offs, PIDAS area Prolevable

by search engines.

	Key Charaveristics of PWA vs Tuaditional movine Apps.
	Feature PWA Traditional Malike App
	Justallation No approtone nequired Justalled sa App Store
	Offline Support 4es, using service workers 4es via local moving and background sym
	Performance font due 10 carling aprimised but may vies more more more more
	Uplates Automatic uplates manual uplate via
Q·2)	nefine responsive web design and explain it questions of two its questions of two its contract responsibility and adaptive web design appearables.
Cor	Response web Design is a design appersach that ennur a worksités layout-odjusts dynamically to different suran sizes and resolution.
•	Fugertaine 9h PWAS PWAS wed to further seautenty ocurs unlifte daire (matrix, tallet, desketop)
•	Cerroier a coisisteur-mer experience regarden of are
Sundaram	FOR EDUCATIONAL USE

nzes and eccolution
Enhances accernisility and usability
surprises SEO evaluation as malate Rejendly welson to
are favoured by search engines.
Compareison of Responsive Fleid and Adaptive Web Deign
eingn Tyre Description Puras
Responsite Uses flexible quids & Flexible course terret
media queries to adjust mere exterieure
1 ayout dynamically
Elleid Voes percentage-based Supoth scalability
uciden to scale dement
- recoportionally
telaphre uses recedefued byouts for opinised on diferent
telaphre uses recedefued byouts for opinised on diferent
oparties some
Describe the lifecycle of Service works Thousing
eegis keation ? Photallation and activation flaces.
Sources workers are background scripts that earlie
offline support caching and bockground sinc in Prote
Bliefer lifecycle cousists of there wash phases

FOR EDUCATIONAL USE

Ð	Registration:
	The sense nearker in enegistered in the becomes with
	nangator. Service Worker. elgester ()
	sein fewen occues in the man Zana Sveiger theread
	of affication
2)	Fustallation:
•	Run cellen a new service velouker in detected
•	Cau cacle anets for offine use
•	of the The tallation Souls, the service nearter
	in discareded.
3)	Activation:
0	After sustallation sit moves to the active place
0	com dear old cooles and manage bockground oyne.
•	Bewenes July functional ofter activation
	if C'aprince Worker' in navigator) ?
	varigator. service Worker. register ('sw.js')
	. then (seeg > canala. log ('savence Worker sugartered
	· carele (erre > course 10g ('serise worker registamfailed', ex
	3
6.4)	Explash the use of Fulexed DB 9h service Worker &
-6	data starage
	Judexedos in client-side Nosal database used for storing
	oreuchured date 9h bledween. or allows Punk to store
	offerential and the second of
Sundaram	FOR EDUCATIONAL USE



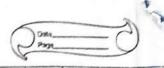
buge auts of data perintently How Fullexed DB works with service weathers mores data locally evalling affine ocean supports complex quering milier local storage Asynchronous operations ferevert us blocking Dato feristeme even when the becomeser is closed Let db; Let request = Indexed DB. open ("PWA_DB"), 1); resquent. ourygradedneeded = Fruction (event) { db = event, touget werelt Let store = db. Create Object Store ("eseri", Skey Para: "id") 3. requer, ou cucces = puntion (event) & db = evelt target eeerelt Fuetion adduser (used) & Let transaction = ab. transaction (["were"], "ecoduceite"); ter store = tecanscultion objects tore ("exers") store add (wer). self add Event listener ('fetchi' event >> & event ecospond with (caches march (evell eveguer), then (everyons => 5

restrou coesponse 11 fetch (event. requer);

3));

3).

Teacher's Sign.: ___



	Benefits of why Indexed DB Ph PIDAS	
	enables efficient offine storage	
•	Tuescaver app performe	
•	Allows background equery when the connection is	
	restored.	
		U
		18
-		
	C. C. A. C. A. C.	
		-1
	A (Alexandra and Come) - kalendra between greeness	
	discourse to the same of the s	
		11
		1 1
-		
		+
		+
	E COUNT PURCHES	1
	bear, Plant of and an area to the action and the	1
	(Charles) we will prove a compart of some of the	
		1
	E PERSON DURING DURING THE FOREST LINE SHE	1
	V seriou buoyeas interio	-
	the and provided and in the first open the literature of all the entires.	1
	A second of the late of the second of the se	1
	Teacher's Sign.:	
	Teacher's Sign.:	