Harya Grandy.

MP2 Assignment s

Define progressive web app (PWA) and explain its similiano In modern web development. Discoss the key cheracterists that differentiate PWB's from traditional mabile apps. of progressive web app (PWB) is a type of web application that works like a malife app but runs in a browser. It can be installed on a device, works optline and provides a fast and smooth use experience Significance of NWH in Modern web & development. DCross platform computibility to offline support B) Fast Performance 6) No Vyp shore vegvired B) Lower Development Cost. Key differences between PWA a meditional Mobile apps PW A Features Traditional mobile app In stallahan Direct from boouser Download from app story. Internet regi-Works offline with Usually requires internet. Vired caching Performance Faster but needs Fast with service woinstallating. rkers

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Automatic no app Menned undal Undat es store approval needed. Low & Cone codebase High & Cseperal Development for all) apps For pa Cost plakorm). ONA'S combine the best of e web and mobile 2) Deline verponsive web design and explain its Importance in the context or propressive we apps. Compare and contrast responsive, xivid a adaptive web design approaches. Derinition of responsive vel design: Responsive web design (RWD) is technique that makes will pages adjust automatically to differen serven sizes and devices to ensures a good vistant needing separate versions or website. Emportance of Responsive Design in PWB's: (1) netter user Emperence @ Faster Loud time (3) BEO SED BENEFITS 6) cost Effective. FOR EDUCATIONAL USE Sundaram

MP2 Assignment (5)

Comparison	Of	web	design	approaches.
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4				KANAL BERKEL PRODUCTION OF THE PRODUCTION
1	ppmoach	How it works	Pros	cons
1	Responsive	Uses Hexible grids	works on all	can be complex
		and CGS medra	devices	to design.
		queries to adjust		
		layout	Elsen Phise	S. O. Y. C.
	681 127	North Maria A. A. Carlotte	Standard Dagger	44
	Fluid	Uses precent based	works will on	Less corred or e-
		voidths instead of	elixerent green	kyout on large
1	- There a	Kinces pixels, so	9128 , easy 10.	Screen (.
		elements regize	implement	20,000
		smoothly	andrese saluar	
	Adaptive	1 1 1	Ophimized for	Maro PLR-+
	the thill	that change at	Enoun screen	1016 9/08/
		specific break points.	Sizes	plais &
				clesion for each
	car such	to Whening	Secretary and the state	geroon 9124
	11			

Key differences.

Responsive adapts dynamically to all screens.

Fluid & resizes smoothly but may not be tolly ophmized

Adaphive louds different legouts bused on device types.

Dessibe the literacle of service workers, in cluding registration, installation and activation phases.

-> Litery de of sentre vorker. A service worker is a scripts that the runs in background and helps a web app work offlin load faster and send push notifications. Its lifecycle has three main phases. 1) Rejistration Phase . The bowser registers the service porter Using Tavassiph if C'scovice worker in non'sator) { navigator serviceworker register (150 751)3 · then (C)=) consule log ('service worker Rejister · catch (coror -) consule. Log (Resistration Vailed!!) / Grown; This tells the bowser to install and activate the service worker-1) Installation phase · the service worker downloads, necessary Kiles CHTML, C39, 755) and stores them in cache · CF successful ; t moves to the activation phase coele example: Self add Eventistener C'install, event-, 5 event wait until C Sundaram FOR EDUCATIONAL USE

MPL Assignment 2
The position of
calhes open Capp-cache). Men (cache => {
return cache-add All C'E'/, Cindex hml',
Styles (55');
a my) is south that there are (by)
18 Total Faces: Petring old to an of Const.
LIAMBAK SACEMI
10 resistent Doller Doller Stereins Saved along
· this ensures the app loads.
Λο το Δ. •Λ1
(3) Activation Phase
The old service worker is replaced with the new
one.
· Unused cacho Viles from me previous versions
(1/10 C/9/01/01)
Final Step: Feth & Syne -
THE CONTRES SERVICE WORKS INTERCENTS no brown
veryvests serves cached files and syncs date.
when the internet is availably.
TRAINEST. CONTRACTORESTAT RESIDENT FOREST S
Englan The uses of Included DB in service
worker for data storge
Use of Frelexed UB in service works for Deck
storge Indexed DB 15 a browser database that
stores large amounts of stovetered data like
Json objects. It helps MM's wons of Pline by saving and retrieving data of efficients.
195 and rementing data of exticients.
10h
Why use Indered DB in Service worker?

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MIL TESTANDENT S O Offline support stores data when offline and Syncs Mater-1) Fricient stoog of saves structured data was

Use setting cart items or form inputs

8) Faster Access: Retrieves data aprice's without need a network request. 1) Persistent paks - Dake vernains saved even an The browser is closed. How service works we Indexed DB? opening the clubbase let db ; let request = indecDB - open ('My paribase'); request onsuccess = Function C event 28 el6 = event. target. result; TOURESTS bayes caped lies and some Creating a store and old odding date request. onupgradeneral = hinchon Cevent) {

Let do = event. ton jet result;

Let store= do create object store ('users', & xeypart) (101) Store add Crid=1, name: John', cye: 25-9); who were thereat to in some and

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MPL assignment 2 Fetching Dake in Gerrice Worker let transaction= db. transaction ('user's', 'readonty'); let store = transachin. Object store ('users'); let getuser = store. get(i); getuser onsuccess = Kunchim () { consule. Log & getuser. rosulfig