Name: Shantanu Saraf Div: DISB Rolling: 59

Assignment-2

	PMA
die	DI Proposition of the proposition of the second of
(J. Y	Define Progressive Web AH (PNA) one explain its signifiance
	in modern web development Distais the Key characteristics
01/20/10	that differentiale PWAs from traditional mobile Aff.
	le armound to notive offs.
Ans.	A Progressive Web App (PWA) is a type of web
	Application that uses mordern web capabilities to deliver
	an app like experience to users. PWA's are built curing
0	Standard web technologies such as HIML, CISS on 1
	Japascript but provide funtionalities traditionally found
	in notive mobile April Such as obline Support push
. The second sec	notification and obvice hordware access.
1 mar had	Veg shoot toucher differentiating PWA, forman ton
	Significance in modern web development:
	The contract of the contract o
10-1	Gross Hatform Compatibility: and office
	arayed though till, when are to
	PWA work across différent devices and photosing inche ding
0	desktobs constituings and taldete aline and the sound in
	desktops smortphines and tablete eliminating the need for
	separate development efforts for each protform.
4	11.
1.62.	Improved user experience:
7.00	ore company and the subset of the
	TWA offer fest loading time, smooth navigation and applike
	intractions, each enhancing leser engagement and Satisfication.
	Satisfact of the said of the
3	Obline bunctionality: PWA; con feeretran of thing on in
1000	areas with hoor network connectivity, utilizing service workers
0	to Cache, content, and data
<u>Sundaram</u>	FOR EDUCATIONAL USE

A	
	C. Freancis A.
4.	Dis coverabilité ond excessibilité :- At
27	PWA are easily discoverable through evel south engines
Ł.	and con be accessed in URLs making them more accessible
	to avers compared to notive onlys.
15 45	Cost effective than building separate native app but
Bank &	hall the solution of the solut
A	
	Key characteristics differentiating PWAs from traditional
	matrie to his his many day agreement in a manifestion
1.	Distribution: PWA, are destributed tria nothe all
	and alassed though UKLs, where are course
a de de	mobile ofthe are typically distributed through off
11110	stones like goge google play stone
	military and similar templatement. Marafile
	Installation: PWAs can be installed directly from the
	brosises without group though an appstore.
	while traditional mobile app require dowloading and
Note the	installation from an app store.
	Literation and Cohomogo leve companied and Later by
3	Development approach's
	3 Office functionally Phine parties with the
. 4	Acces to device features.
@	FOR EDUCATIONAL USE
Sundaram	FOR EDUCATIONAL USE
CONTRACTOR OF THE PARTY OF THE	AND PLANT BURNESS OF THE PLANT

Q.2> Responsive meb design is on a approach to web development that aims to create belsites that adopt to the ever's device and screen size, providing an oftimal viewing experience a cross a wide range of devices from desktop computers to smartphones and tablets. Responsive cuch design achieves this by cesting flexible layoute bluid grids and CSI media queries to adject the design and content bosed on the device's seven size and orientation. In the context of progressive web Apps (PWA:), responsible web & designed to work slambersly across various at devices and screen sizes. By employing responsive clesign principles, PWA, con Ensure that essess have a cossient and user-friendly experience regardies of the device they are using to access the app this enchances accessibility, usability and engagement, which are essential aspects of a Successbul PWA. Ryponsive ueb design:

· Clser fluid grids, flexible layouts, and CSS media queries to adapt the design and content losed on the Ceser's device and screen Size.

· Provides a seamless Viewing experience across different durices and screen resolutions.

Sundaram

2.	fluid och design:
William.	The state of the s
	· Forester a contract of the
	Of the Creating august and designs that can
Jun 1	· Focuses on creating layouts and designs that can fluidly adapt to changes in viewfort size and resolution
- <u>)</u>	Dage to the state of the state
(-11-L	not nest necessarily in corporate media queries
1621	to adjust specific design elements for different devices.
. 0	All the second of the second of the second of
<u>3</u> .	Adaptive: evel design:
	4 .
Notern 15	· Involves creating multiple versions of a crelisite, each tailored to specific devices sizes or screen resolutions.
a tatio	tailored to specific devices sizes or screen regulations
Withou	this many form and were and the second
	The lifecycle of Service Workers involves three main shases: registration, installation and activation.
4-	Chases: regulation installation and actualization
	in the set was a set of the set o
Mary.	Registration:
	The billion of the state of
The second secon	· The light shall is come a house of the int
	. The first step is using a service worker is to
- William	register it within the web application. This is typically
1-	done in the man Javascrift file of the application, often
	Called the service wolker registration script.
	as break there we relates the frame of second
	once registered, the browser starts be process of
	to in stalling the service worker in the background.
	The state of the s
2.	Installation:
	· During the installation phase, the browser dowloads the
	During the installation phase, the browser dowloads the Service, worker, script, specified during registration.
<u>Sundaram</u> ®	FOR EDUCATIONAL USE

1		
	3.	Activation:
	S 1	· After the installation is complete, the Service worker
		Durcha activation the activate to vant is form
		Cathin the SCALICO LANKE Sucht highland an office
		for developers to perform Chance tasks or handle
		bersioning of cached Resources.
		the Lodered DB is a howevery Client side Storage FIFI
全人		amilable in modern web browers including trost that
18 July 18 18		Support Service workey. Service workers con avange
Si e. c.	1.00	Indexed DB to Store and manage data rocally.
	3	Offine functionality, caching strategies and afficient
100 m		data synchrogisdien.
# P		1. Offline Data Storage:
\$2000 E	to the second	· Service workers can intercept return & requests and Cache responses lesing Indexed DB. When the bossiver
		Cache responses lesing Indexed DB. When the bossiver
	-	Con serve is Offline.
		Application of the second of t
	-	a boot racke of brighently accepted resources, reducing the
		need for repeated network requests and improving application
		for prosonare.
4		
	· · · · · · · · · · · · · · · · · · ·	Cachily Strategies.
	i Fyligitik	
7	Sundaram	FOR EDUCATIONAL USE

5. Asynchronous API:-		
B Service worker can periodically synchronize data with the Server in the Background cesting Induced DB. 4. Persistent Stanger Tridexed DB fravioles persistent stange Capabilities, allowing data to persist across browser sessions and page rebasts. 5. Asynchronous API: - Indexed DB affers an approchanous API, allowing sens evankers to perform data stange and retrieval operations without the stocking the main thread.		
B Service worker can periodically synchronize data with the Server in the Background cushy Industed DB. 4. Persistent Stonage: - Indused DB fromides persistent stonage Capabilities, allowing data to persist across browser sessions and page rebasts. - S. Asynchronous API: - Induced DB affers an agrandronous API, allowing Sense workers to perform data stonage and retrieval - Operations without the Glocking the main throad.	3.	Backgroud Data Synchronization:
Gersistent Storage: France DB francies persistent storage Capabilities, allowing data to persist acress browser sessions and page reloads. S. Asynchronous API: Judeced DB offers on agynchronous API, allowing sens evorkers be perform data storage and retrieval operations without the Glocking the main throad.	a Vi Coo. 11	Bervice worker can periodically synchronize data with. The Server in the Background cessing Induced DB.
- S. Asynchronous API: - Indeced DB offers on asynchronous API, allowing Sens - ever Kers to perform data storage and retrieval - Operations without the Glocking the main throad.	4.	
- Indeced DB offers on agynchronous API, allowing Sens - workers to herform data storage and retrieval - operations without the Glocking the main throad.	Z) \$ 1 · 7	Induced DB provides persistent storage Capabilities, allowing data to persist across browser sessions and page rebads.
	5	Asynchronous API:-
	110	· Indexed DB offers on approchanous API, allowing Services workers to perform data storage and retrieval operations without the Glocking the main throad.
		i relition that Amanasa
I had been a poster to poster or without in in .		Brown constant interpret when something
To the school testing triblered the letter in terminal	43	Carlo sofra to the state of the later of the later of the sofrance of the sofr
The state of the second and the second and the second and the		The change of the contract of the contract of
a local factor of forgon by recorded homeomorphism with the	- 41	or born Pochs of hope the remark amount of the
- and for separate when the separate from the first		and for speaked whenthe agreedy a distinguish the
		The first transfer of the second seco
I Market		A STATE OF THE STA
FOR EDUCATIONAL USE	erioring.	