MAD- Assignment - I.

of supplier app dwelopment.

I the six a cross platform us toolkit developed by google for building naterely compiled application for mobile heb & desktop from a single code pase features and advantages include:

Mot reload, which enables to instantly view changes

without sestaiting the app.

> Widget based authoritecture making the divelopment moldular and customisable.

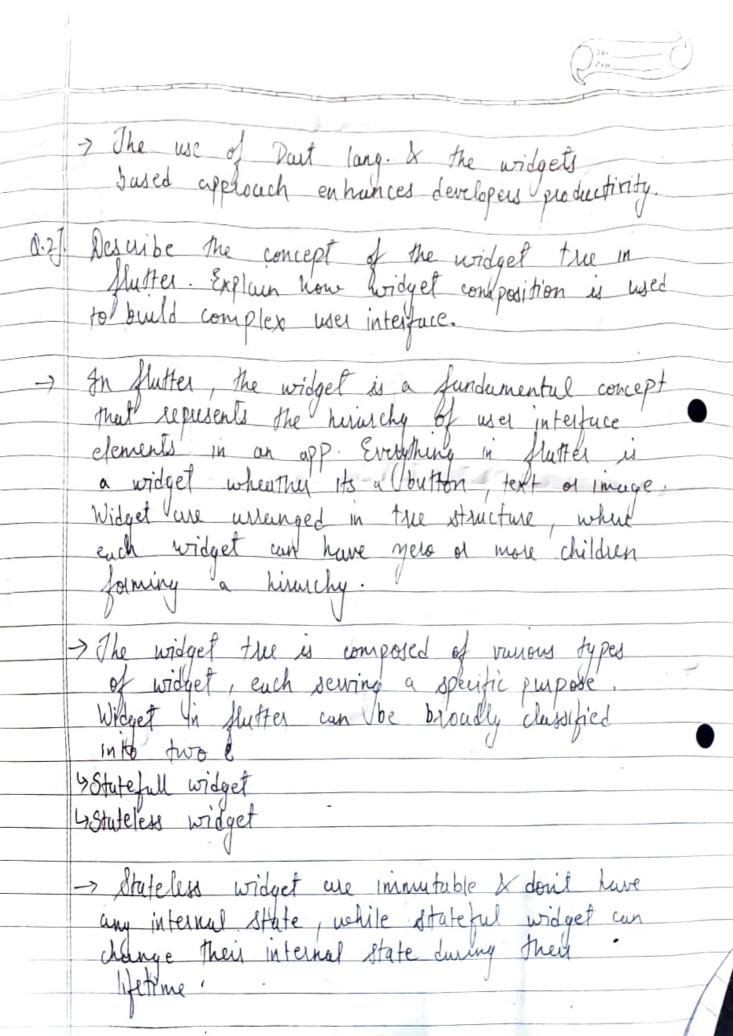
-> Expressive UI; providing sich sets of UI for creating great interface

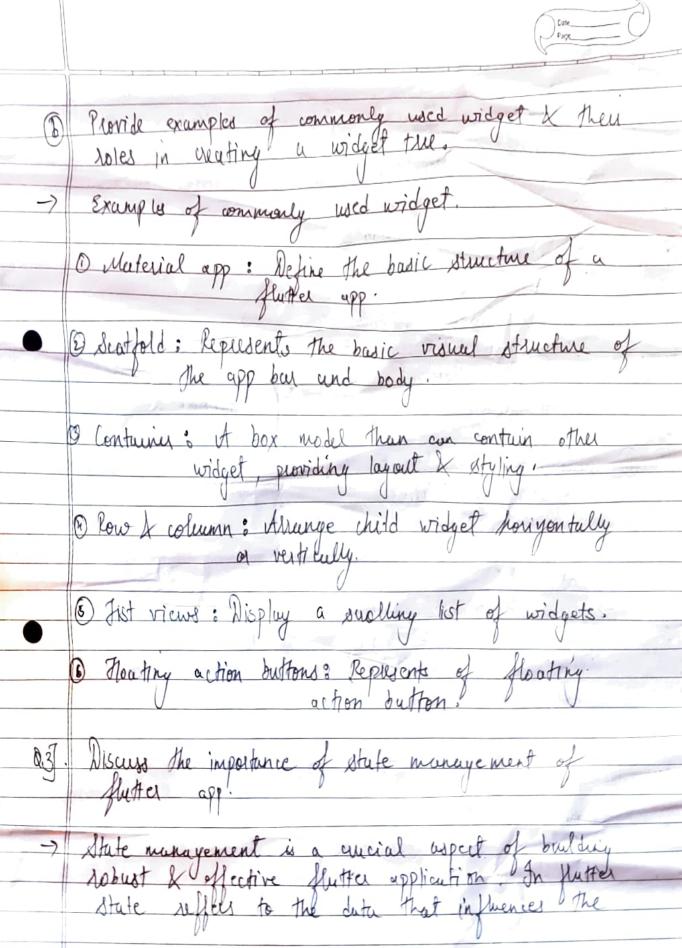
> single ladebase, so divelop once, deploy everything Iseducing the overall time.

Discuss how the flutter framework differs from traditional approaches and why it has garned popularity.

>>> Flutter uses a seactive framework, whereas tradition approaches are typically imperative.

ensuring a native look & feel.

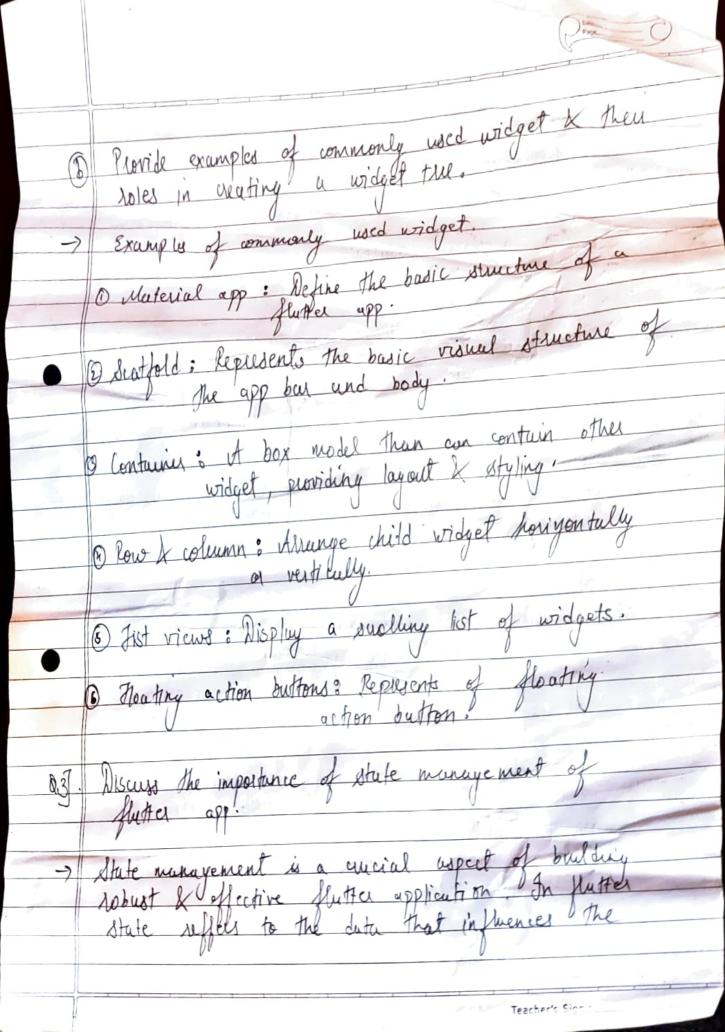




Teacher's Sign

apperance & behaviour of widgel. Making state offectively is essential for writing responsive & dynamic application. Here are some reason. 1> User interface updates. > Performance optimisation. code maintainabitity > Reusability & modulerity. 13 Persistant & narigation. 1) Concurrany & asynchronous operations, (b) compare the different state management approaches available in flutter. - set state: Plos. > dimplicity: set state is the most strough forward way to manage state in flutter. It is built into the frame work & is casy to understand for beginers > it propriate for simple U.S. For smalls to moderately complex UTs where the state changes are docatted and the widget tree is not deeply heafed set state can be sufficient.

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1> Wes interface updates.

> Performance optimisation-

> code maintainabitity

5 Reusubility & modularity

13 Persistant & narigation. 13 Stateful widget "Imitation

5 Concurrany & asynchronous operations

(b) compare the different state management approaches available in flutter.

- set state:

> simplicity: set state is the most strough forward way to manage state in flutter. It is built into the frame work & is cosy to understand

> it propriate for simple U.S. For smalls to modelately complex UTs where the state changes are localised and the widget tree is not deeply nested set state can be sufficient.

fluster app. of integrating file base with > le Create a firebase project.

> do to the fuebase console & create a new project

> bellow the setup instructor 2. Add fierbase to flutter project.

7 In flutter project, add the firebase SDK dipendencies
to the 'yaml' file. 3. Initialise filebase.

Import the filebase package & mitialine filebase in 4. We furbase services in the app.

-> Implement fix base service in your app code. Benefits wing fiebase 4) Real time dutabase 4 studentication 4) Cloud Sunction 4 Cloyd Gueston 1) Mosting & analytics. 4 sewe of scalable 15 Easy setup & integention

If This hight the friebase services commonly used in surview development & provide a blief overview. Common fiebuse service 1) Muhantication: Filebase authentication for wes 5) Firestore: A No sol dutabase for real-time duta Light base should messaging: Push notification for Jenyaging mole user, Hata sync. Ly fisture and streams. Firebase services use listner and othern extensively. Hutter dwelopment con use stream-based APIs to listner for change in Lata wheather its in firebase, the real time detabase or other fulbuse service. 4 Offline support: Firebase services provide built in flure support. Flutter apps can work seamlessly offine and when connectifity is restored, changes D made offene are automatically sync with the server!