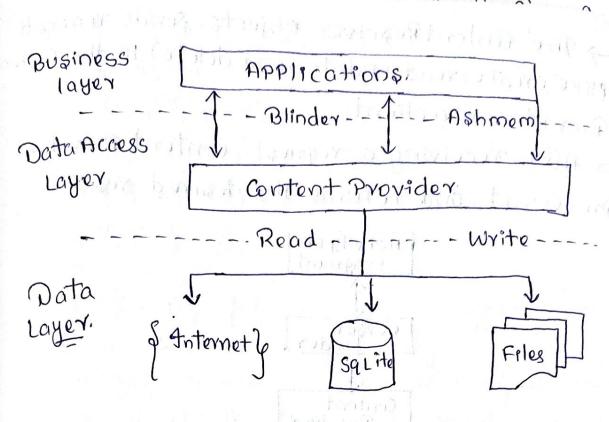
Content Provider

- -> Content Provider manages access to a Central repository of data.
- Content Providers are a very important Component that serves the Purpose of a relation database to store the data of applications.
- -> Content Providers are facilitates other applications to securely access and modifies to data based on their user requirements.
 - -> Content Provider Component supplies data from one application to others on request.
 - -> Usker Android allows the Content Provider to store the application data in several ways.
 - -> Users can manage to store the application data like images, audio, videos, and Personal Contained information by storing them in salite Database, in files, or even on a network.
 - -> Such requests are handled by the methods of the Content Resolver class
 - -> Some times it is required to share data accross applications. This is where Content Providers be come very useful.



operations in Content Provider:

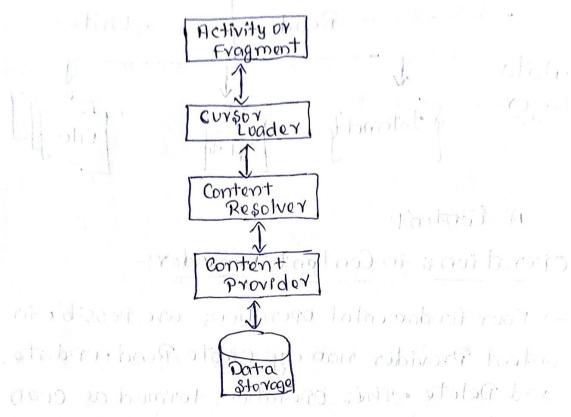
- Four fundamental operations are Possible in Content Provider namely Create, Read, update, and Delete. This operations termed as CURD operations
- * Create: operation to create data ina Content
- * Read: Used to fetch data from a Content Provider
 - *update: To modify existing data
- * Remove: To vernove existing data from the storage.

Working of the Content Provider

-> UI components of andvoid applications like Activity and Fragments use an object Cursor Loader to send query requests to Content Resolver.

The ContentResolver objects sends requests
(like create, read, update, and delete) to the Content
Provider as a client.

Process it and returns the desired result.



Create Content Provider:

- -> First of all you need to create a Content Provider class that extends the Content Provider baseclass.
- -> Se cond. you need to diffine your Content Provider uni address which will be used to access the Content.
- -> Create, a datable to store the application

the send query requests to tenterat Resolver.

- provider queries to perform different database specific operations.
- -> Finally register your content Provider in your activity file using < provider> tag.

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Abstract methods

- _ On create () this method is called when the provider is started.
- query (), this method receives a request from a client. The result is returned as a evisor object.
- into the Content Provider
- -> delete() -> this method deletes on existing record.
- -> update()-> this method updates an existing record
- -> getType() -> This method vetovos the MIME type of the data at the given URI

MIME (Multipurpose Anternet Mail Extension).

Structure of Content UR!

-> Content URI [uniform Resource Identifer]
is a key Concept of Content Provider

structure:-

Content: // authority//optionalPath/ optionalD

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Content:11:

Mandatory Part of the URI as it represents.
that the given URI is a Content URI.

Authority: -

Signifies the name of the Content Provider
like Contacts, browser, etc..., This part be unique

optional Path: -

specifies the type of data Provided by the Contont Provider.

optional ID: -

4+ is numeric value that is used when there is a need to access a Particular record.