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AQSA IQBAL

## Mobile App Development

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### Question # (01)

#### Gradle:-

Gradle is a build automation tool used in android and flutter app development to manage dependencies, compile code and build APKs for distribution.

- Automates the process of compiling, testing and packaging the app.
- Manages third party (dependencies)\* libraries and SDK dependencies.
- Supports modular App architecture for better scalability.
- Allow developers to customize the build process files.

### Question # (02)

#### Dependencies:-

Dependencies are external libraries, packages or modules that your app needs to function properly. These dependencies provide pre-written code for common functionalities helping developers save time and effort.



## Question # (03)

### API:-

API stands for application programming interface. It is a general term for a set of rules that allow different software apps to communicate with each other. In API, architecture can be SOAP, RPC, REST or any communication method. APIs are used for communication between software components.

### RESTFUL API:-

A specific type of API that follows REST principles using HTTP methods:  
GET PUT  
POST DELETE

It uses HTTP protocols for communication only and is used for web-based communication following REST Principles, and RESTFUL APIs typically uses JSON format.

## Question # (04)

### Pubspec.yaml:-

It is the configuration file for a flutter project. It defines the project details, dependencies, assets, fonts and other settings needed for the app. It ensures the project compatibility.



## Question # (05)

### Local storage:-

Local storage refers to storing data on a user's device permanently or temporarily, without needing an internet connection. It allows apps to save user preferences, settings or data for offline.

### Why use this?

- Works offline
- Faster data access
- Reduces API calls
- Stores user preferences