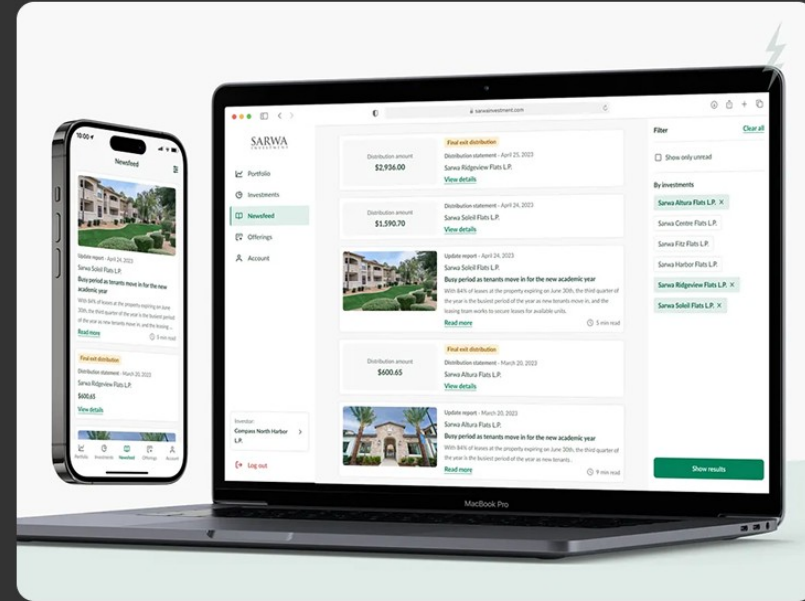


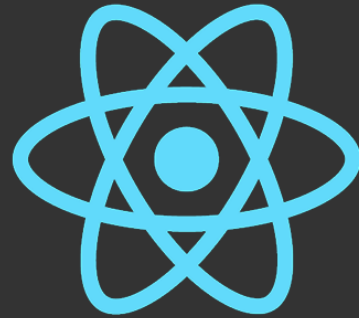
Cross platform apps

- Supports multiple platforms from a single codebase
- Cross platform frameworks are used to build these applications
- Preferred for making multi platform projects



Cross platform frameworks

- Allows sharing of business logic between different platforms
- Access to native api's and UI elements are handled by the framework
- Updating the application is much more streamlined
- React Native, Flutter ,UNO and MAUI are the popular examples



React Native

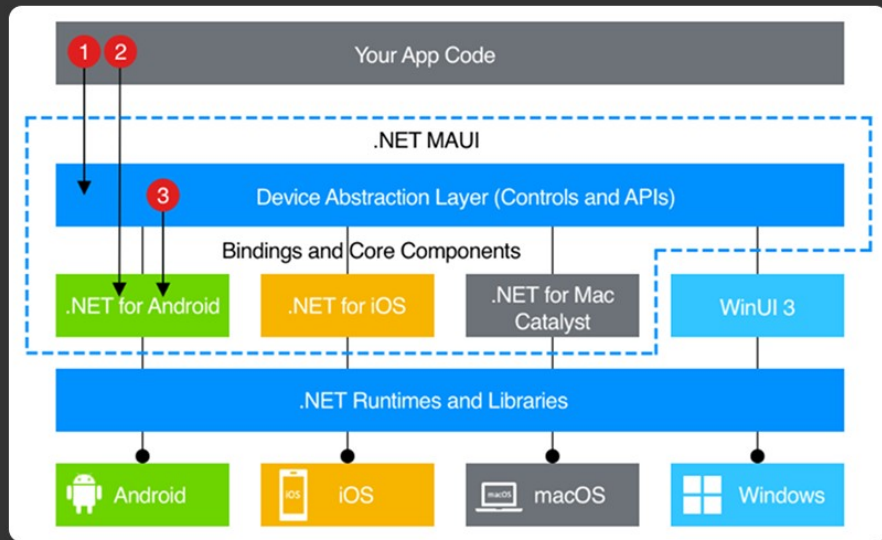
what is MAUI?

- Multi platform App UI (MAUI) is an application framework made by Microsoft
- Built for cross platform app development
- Powered by the **.NET** framework
- Uses CSharp and XAML

why use MAUI?

- Supports iOS, android, macOS and windows app development
- Provides access to platform specific api's
- Uses native UI components

How does MAUI work?



- Program code accesses native api's using built in abstraction layers
- Abstraction layer is made up of MAUI Controls and MAUI api's
- Abstraction layers gets mapped to platform specific api's

React Native

- Developed by facebook in order to create iOS and android apps using a single codebase
- Uses React JS for creating native UI elements
- Lightweight and fast prototyping
- Fast UI refresh in development environment
- Allows creation of native elements using platform specific code

Flutter

- Developed by Google in order to create cross platform applications
- Uses Dart, which is also made by Google, for creating GUI applications
- Dart is compiled to native machine code on production builds, so fast and responsive UI
- Uses Skia, a custom C++ renderer, which renders every UI element the same on every platform
- Made for iOS, Android, MacOS, Linux, Web and Windows application development