Objective:

Create an iOS or Android based application exhibiting the MVVM/MVC pattern which can run on either iOS or Android devices.

You can choose either one of following to use depending on your preference:

- * Xamarin.Android or Xamarin.iOS or Xamarin forms for cross platform
- * Swift or Objective-C for iOS
- * Java or Kotlin for Android

Please use no more than 8 hours to complete this task

Tasks:

- 1. User should be able to spawn an infinite number of squares or circles filled with random colours or images
- 2. Application consists of one single screen
- 3. Create squares or circles which randomly fill with random colours or images when the user taps on the main background
- 4. Created shapes are placed at the user's tapped location
- 5. Create a shape at a random size within appropriate ranges
- 6. Fill circle with an colour that is generated by calling the api from http://www.colourlovers.com/api/colors/random?format=json. use either RGB or Hex value
- 7. Fill square with an image that is generated by calling the api from http://www.colourlovers.com/api/patterns/random?format=json. use imageUrl value
- 8. If no connection is available from the above url, use code to generate random colours
- 9. double tapping the shape replaces the colour based on the above mentioned rules
- 10. You can not use any third party libraries

Extra tasks if time allows:

- 1. When a user taps the screen, add an animation for the shapes that appear
- 2. Remove all shapes when shakes device
- 3. Be able to move a shape around
- 4. A user can use a pinch action to enlarge or shrink the size of the shape
- 5. Working app for both iOS and Android

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Source code available through GitHub or other public repository
Release Notes to states what's been completed
The source code must compile with no errors on either Android/iOS environments
iOS application must support iOS 10+
Android APK must support API 16+