Push Notification

- ***Push Notification*** is an alert message that pops up on a mobile device. Application publishers can send push notifications at any time; users don't have to be in the app or using their devices to receive them.

- Push Notification can do a lot of things; for example, it can show the latest sports scores, get a user to take an action, such as downloading a coupon, or let a user know about an event, such as a flash sale.

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How to Set Up React Native Local Push Notification

#1 Create Project

■ Create React Native project:

```
$ react-native init namaProjek
$ cd namaProjek
```

■ Install React Native Push Notification:

```
$ npm install react-native-push-notification
$ react-native link
```

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#2 Update Gradle

■ On your project, edit `android/build.gradle`, add:

```
ext {
    googlePlayServicesVersion = "12.5.29"
    compileSdkVersion = "23"
    buildToolsVersion = "23.0.1"
    targetSdkVersion = "23"
    supportLibVersion = "23.1.1"
}
```

Google Play Services version can be accessed from your Android emulator. Go to **Settings – Apps – Google Play Services**.

Google Play services
version 12.5.29 (040700-192802242)

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#3 AndroidManifest.xml

■ On your project, add lines below to AndroidManifest.xml (android/app/src/main/AndroidManifest.xml)

```
..... <uses-permission android:name="android.permission.WAKE_LOCK" /> <permission
android:name="${applicationId}.permission.C2D_MESSAGE" android:protectionLevel="signature" />
<uses-permission android:name="${applicationId}.permission.C2D_MESSAGE" /> <uses-permission
android:name="android.permission.VIBRATE" /> <uses-permission
android:name="android.permission.RECEIVE_BOOT_COMPLETED"/>

<application ....>
<receiver android:name="com.google.android.gms.gcm.GcmReceiver" android:exported="true"
android:permission="com.google.android.c2dm.permission.SEND" > <intent-filter> <action
android:name="com.google.android.c2dm.intent.RECEIVE" /> <category
android:name="${applicationId}" /> </intent-filter> </receiver> <receiver
android:name="com.dieam.reactnativepushnotification.modules.RNPushNotificationPublisher" />
<receiver
android:name="com.dieam.reactnativepushnotification.modules.RNPushNotificationBootEventReceiver
"> <intent-filter> <action android:name="android.intent.action.BOOT_COMPLETED" /> </intent-
filter> </receiver> <service
android:name="com.dieam.reactnativepushnotification.modules.RNPushNotificationRegistrationServi
ce"/> <service
android:name="com.dieam.reactnativepushnotification.modules.RNPushNotificationListenerService"
android:exported="false" > <intent-filter> <action
android:name="com.google.android.c2dm.intent.RECEIVE" /> </intent-filter> </service> .....
```

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#4 Setting Gradle

- Check these lines are exist in `android/settings.gradle`, if not just add lines below!

```
include ':react-native-push-notification'

project(':react-native-push-notification')
.projectDir = file('../node_modules/
react-native-push-notification/android')
```

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```javascript
import React, { Component } from 'react';
import PushNotification from
'react-native-push-notification';

class PushController extends Component{
 componentDidMount(){
  PushNotification.configure({
   onNotification: function(notification) {
    console.log( 'NOTIFICATION:', notification );
   },
  })
 }
 render(){
  return null;
 }
}

export default PushController;
```

```javascript
import React, { Component } from 'react';
import { AppState, View, Text } from 'react-native'
import PushController from './Push';
import PushNotification from
'react-native-push-notification';

class App extends Component {
 constructor() {
   super();
   this.handleAppStateChange =
        this.handleAppStateChange.bind(this);
   this.state = {ms:5000};
}

componentDidMount(){
 AppState.addEventListener(
        'change',this.handleAppStateChange);
}
```
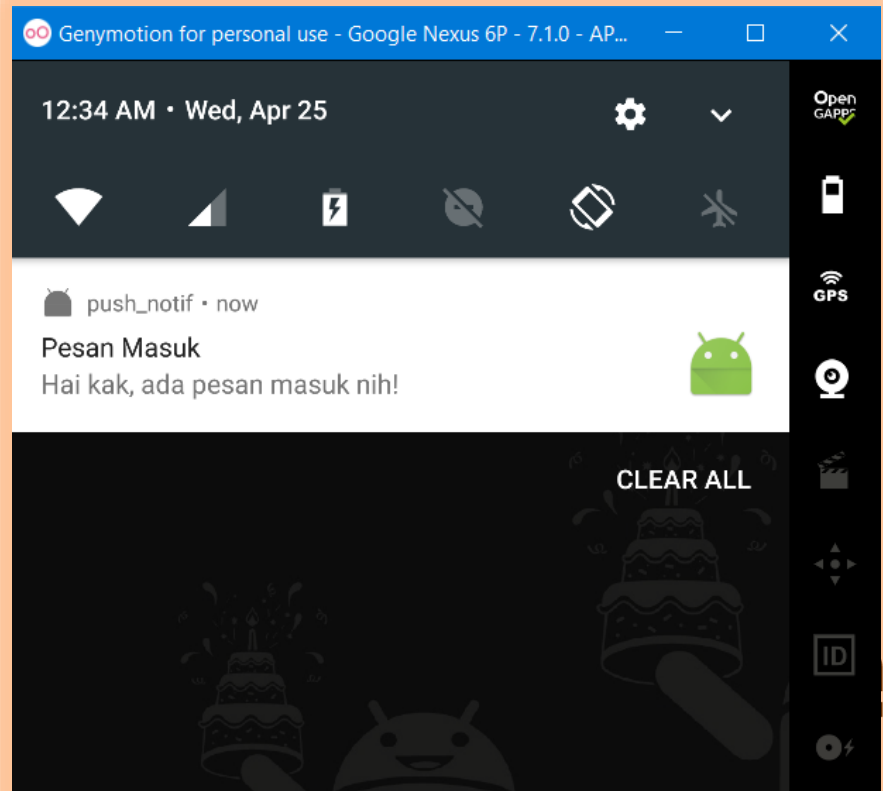
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```
handleAppStateChange(appState){
  if(appState === 'background'){
    PushNotification.localNotificationSchedule({
      title: "Pesan Masuk",
      message: "Hai kak, ada pesan masuk nih!",
      date: new Date(Date.now() + (this.state.ms)),
    });
  }
}

render() {
  return (
    <View>
      <Text> Halo </Text>
      <PushController/>
    </View>
);}}

export default App;
```

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```
handleAppStateChange(appState){
 if(appState === 'background'){
  PushNotification.localNotificationSchedule({
    largeIcon: "ic_launcher",
    title: "Pesan Masuk",
    message: "Hai kak, ada pesan masuk nih!",
    date: new Date(Date.now() + (this.state.ms)),
    bigText: "Ini akan muncul saat expand push notif",
    subText: "Ini adalah subText",
    color: "red",
    vibrate: true,
    vibration: 300,
  });
 }
}
```

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Mobile Development

Push Notification

#10 React Native Local Push Notification

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