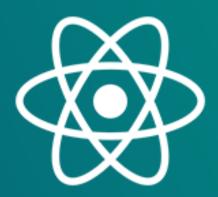
Mobile Development



Push Notification

#10 React Native Local Push Notification



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.



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





#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)





#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</pre>
android:name="android.permission.VIBRATE" /> <uses-permission</pre>
android:name="android.permission.RECEIVE BOOT COMPLETED"/>
<application ....>
<receiver android:name="com.google.android.gms.gcm.GcmReceiver" android:exported="true"</pre>
android:permission="com.google.android.c2dm.permission.SEND" > <intent-filter> <action</pre>
android:name="com.google.android.c2dm.intent.RECEIVE" /> <category</pre>
android:name="${applicationId}" /> </intent-filter> </receiver> <receiver</pre>
android:name="com.dieam.reactnativepushnotification.modules.RNPushNotificationPublisher" />
<receiver</pre>
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</pre>
android:name="com.google.android.c2dm.intent.RECEIVE" /> </intent-filter> </service> .....
```





#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')
```



#5 Push.js

```
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;



#6 App.js

```
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);
```

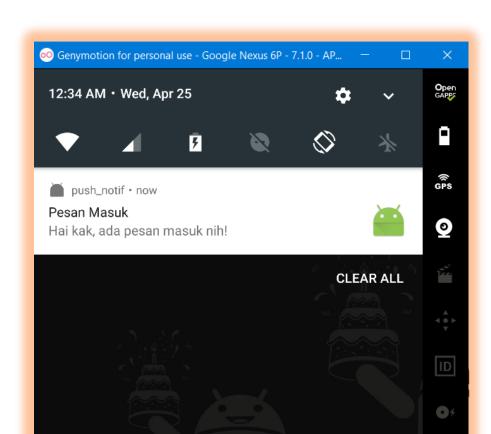
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#6 App.js

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;

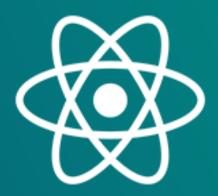


More Props...

```
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,
 });
```

push_notif • Ini adalah subText • now • Pesan Masuk Hai kak, ada pesan masuk nih! push_notif • Ini adalah subText • now Pesan Masuk Big Text akan muncul saat push notif diexpand! **CLEAR ALL**

Mobile Development



Push Notification

#10 React Native Local Push Notification

