Vivarta : AN APP TO TELL US ABOUT SIX HERITAGE SITES IN INDIA

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ABOUT THE APP

As evident from the title of the project itself, this app gives us information about certain **Heritage Sites** of our country.

We have included **6 handpicked historical places and monuments of national importance** of our choice in this app.

Upon clicking on the name of any one of the given six, the app will display **a very brief history of** and **a few lines about** the place/monument along with **images of the same**.

The **Heritage Sites** included in this app are :

- **Nalanda University**
- **Taj Mahal**
- **Victoria Memorial**
- **Red Fort**
- **Qutub Minar**
- **Konark Temple**

CODES

MainActivity.kt

```
package com.example.indianheritage
import android.os.Bundle
import io.flutter.app.FlutterActivity
import io.flutter.plugins.GeneratedPluginRegistrant
class MainActivity: FlutterActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    GeneratedPluginRegistrant.registerWith(this) }
}
```

launch_background.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<layer-list xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:drawable="@android:color/white" />
</layer-list>
```

styles.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <style name="LaunchTheme"
parent="@android:style/Theme.Black.NoTitleBar">
    <item
name="android:windowBackground">@drawable/launch_background</item>
    </style>
</resources>
```

AndroidManifest.xml

```xml
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.indianheritage">
    <uses-permission android:name="android.permission.INTERNET"/>
    <application
        android:name="io.flutter.app.FlutterApplication"
        android:label="indian_heritage"
        android:icon="@mipmap/ic_launcher">
        <activity
            android:name=".MainActivity"
            android:launchMode="singleTop"
            android:theme="@style/LaunchTheme"
            android:configChanges="orientation|keyboardHidden|keyboard|screenSize|locale|layoutDirection|fontScale|screenLayout|density"
            android:hardwareAccelerated="true"
            android:windowSoftInputMode="adjustResize">
            <meta-data
android:name="io.flutter.app.android.SplashScreenUntilFirstFrame"
                android:value="true" />
            <intent-filter>
                <action android:name="android.intent.action.MAIN"/>
                <category
android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
        </activity>
    </application>
</manifest>
```
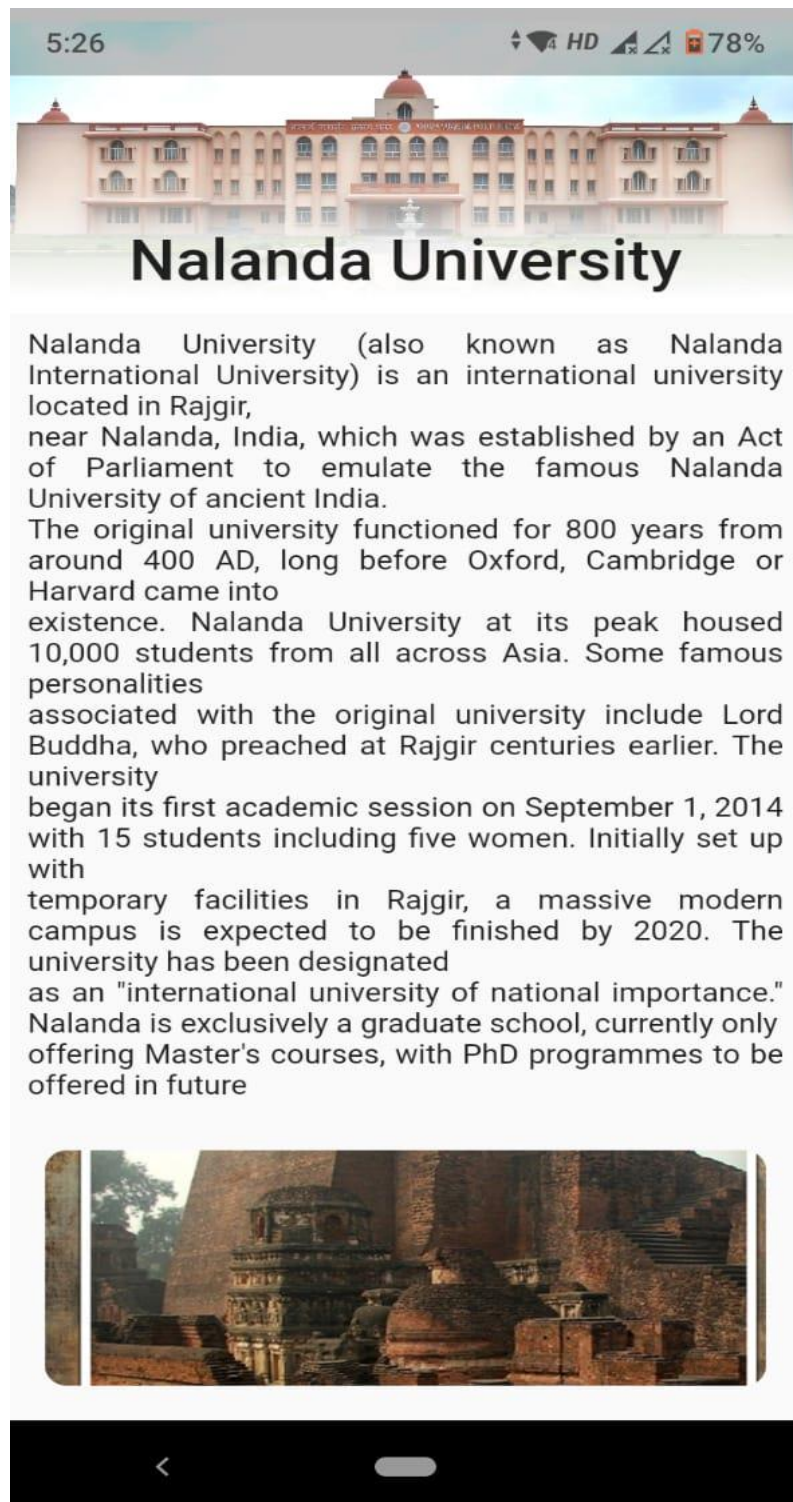
HOW THE APP WORKS

When a person opens the app after installing, he/she will be able to see the front page or opening page which has the heading : ' **Heritage Sites** ' and a list containing the names, along with an image each of the 6 heritage sites, the details of which are included in the app.

When we click on any of the 6 images, the app will show us a few lines about the place/monument along with images of the same at the top as well as at the bottom of the page/screen.

For instance, If we click on the very first one viz. **Nalanda University**, it will show the following page :

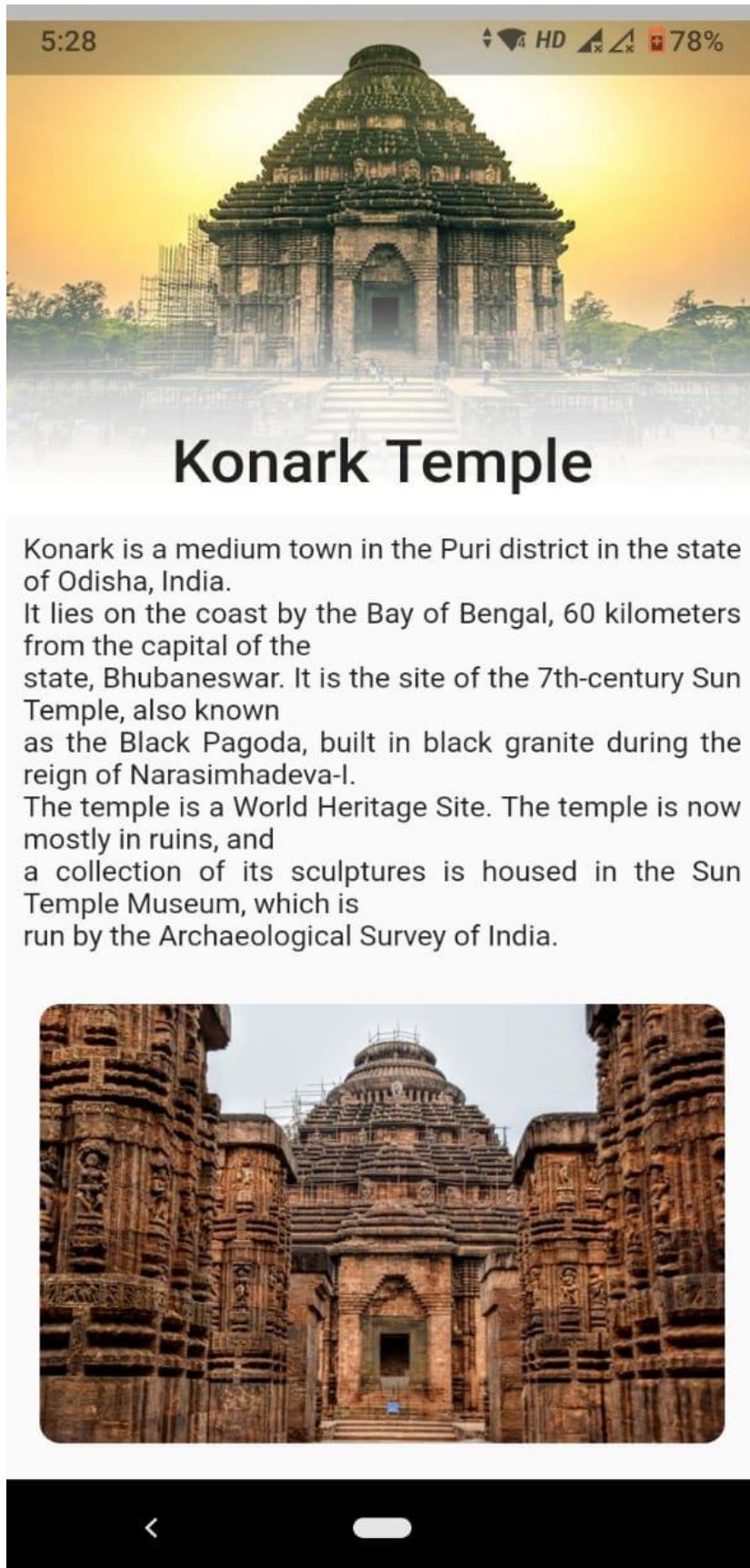If we click on the third one viz. **Victoria Memorial**, the app will show :

The Victoria Memorial's architect was William Emerson (1843–1924),
president of the Royal Institute of British Architects.
The design is in the Indo-Saracenic revivalist style which uses a
mixture of British and Mughal elements with Venetian, Egyptian,
Deccani and Islamic architectural influences. The building is 338 feet
(103 m) by 228 feet(69 m) and rises to a height of 184 feet(56 m).
It is constructed of white Makrana marble. The gardens of the Victoria
Memorial were designed by Lord Redesdale and David Prain. Emerson's assistant, Vincent Jerome Esch,
designed the bridge of the north aspect and the garden gates.

If we click on the last one viz. **Konark Temple**, the app will show :

5:28   HD   78%

Konark Temple

Konark is a medium town in the Puri district in the state of Odisha, India.
It lies on the coast by the Bay of Bengal, 60 kilometers from the capital of the
state, Bhubaneswar. It is the site of the 7th-century Sun Temple, also known
as the Black Pagoda, built in black granite during the reign of Narasimhadeva-I.
The temple is a World Heritage Site. The temple is now mostly in ruins, and
a collection of its sculptures is housed in the Sun Temple Museum, which is
run by the Archaeological Survey of India.

Similarly, whenever we click on any of the image of our choice in the opening page, the app will show us the information about that particular place/monument contained within.

- **<u>Note</u> :** There are multiple images of each place/monument at the **bottom of the page** containing the details of the same.
  In order to see all the images, we just have to swipe left at the bottom of the page where the image(s) is/are displayed.

  However, the image shown at the **top of the page** is one and unique.

  For instance, there are **two images** of **Nalanda University** contained at the bottom of the page which contains its details. When we click on the image of Nalanda University in the opening page, we can see the following page :

SWIPE LEFT

We have to **swipe left** to see **the next image**.

When we swipe left as shown in the instruction, we will be able to see the next image.

And the page will look like :

NEXT IMAGE

Thus, we can see the two images of Nalanda University contained within.

Similarly, there are :

- **Two images** of **Taj Mahal**
- **Three images** of **Victoria Memorial**
- **Two images** of **Red Fort**
- **Two images** of **Qutub Minar**
- **Two images** of **Konark Temple**

We just have to **swipe left** in each case **to see all the images** of a given place/monument at the bottom of the page.

If we want to **go back to the previous image**, we have to **swipe right** at the bottom of the page where the image(s) is/are displayed.

However, as mentioned earlier, there is **only one image** at the **top of the page** of each place/monument. Hence, **neither will it change**, **nor will it show some other image** if we swipe left/right at the top of the page.

When we are inside the page of a particular place/monument and we want to go back to the opening page, we just have to press the **Back** button(bottom-left or bottom-right of the screen/phone depending on the company and the model of the mobile phone). Once we are back on the opening page, we can click on the image of some other place, or perhaps, on the image of that same place once again, according to our choice to enter into the page containing details and images of the particular place/monument that we wish to view.

That is all about how our app works and what it exactly does.

REFERENCES

- https://flutter.dev/docs/reference/tutorials

- https://codelabs.developers.google.com/codelabs/flutter#0

- https://dyna.mo/en/blog/flutter-building-apps-beyond-ui/

- https://examsdaily.in/unesco-heritages-sites-in-india

THANK YOU