

Podcast Plus: A Redux-Inspired Podcast App with Dynamic Themes for Android

Listen in style. Podcasting made personal

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OBJECTIVE

The goal of Podcast Plus is to provide Android users with a seamless and engaging podcast streaming experience by leveraging a Redux-inspired architecture for efficient state management. This ensures predictability, maintainability, and real-time updates across the app, enhancing overall performance. The app features dynamic themes, including light, dark, and customizable options, allowing users to personalize their interface. With an intuitive design, personalized recommendations, and offline support, Podcast Plus prioritizes user convenience and flexibility. Its modular and scalable structure ensures the app remains adaptable to future enhancements, delivering a reliable and visually appealing podcast experience.

MainActivity.kt

```
package com.example.podcastplayer

import android.content.Context
import android.media.MediaPlayer
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.BorderStroke
import androidx.compose.foundation.Image
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextAlign
```

```
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.em
import androidx.compose.ui.unit.sp
import com.example.podcastplayer.ui.theme.PodcastPlayerTheme
```

```
class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            PodcastPlayerTheme {
                // A surface container using the 'background' color from the theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colors.background

                ) {
                    playAudio(this)
                }
            }
        }
    }
}
```

```
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.em
import androidx.compose.ui.unit.sp
import com.example.podcastplayer.ui.theme.PodcastPlayerTheme

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            PodcastPlayerTheme {
                // A surface container using the 'background' color from the theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colors.background

                ) {
                    playAudio(this)
                }
            }
        }
    }
}
```

```
@Composable
```

```
fun playAudio(context: Context) {
```

```
    Column(modifier = Modifier.fillMaxSize()) {
```

```
        Column(horizontalAlignment = Alignment.CenterHorizontally, verticalArrangement = Arrangement.Center) {
```

```
            Text(text = "PODCAST",  
                modifier = Modifier.fillMaxWidth(),  
                textAlign = TextAlign.Center,  
                color = Color(0xFF6a3ef9),  
                fontWeight = FontWeight.Bold,  
                fontSize = 36.sp,  
                style = MaterialTheme.typography.h1,  
                letterSpacing = 0.1.em
```

```
        )
```

```
    }
```

```
    Column(modifier = Modifier  
        .fillMaxSize())
```

```
.verticalScroll(rememberScrollState())) {
```

```
    Card(
```

```
        elevation = 12.dp,
```

```
        border = BorderStroke(1.dp, Color.Magenta),
```

```
        modifier = Modifier
```

```
            .padding(16.dp)
```

```
            .fillMaxWidth()
```

```
            .height(250.dp)
```

```
    )
```

```
    {
```

```
        val mp: MediaPlayer = MediaPlayer.create(context, R.raw.audio)
```

```
        Column(
```

```
            modifier = Modifier.fillMaxSize(),
```

```
            horizontalAlignment = Alignment.CenterHorizontally
```

```
        ) {
```

```
            Image(
```

```
                painter = painterResource(id = R.drawable.img),
```

```
                contentDescription = null,
```

```
                modifier = Modifier
```

```
.height(150.dp)  
.width(200.dp),
```

```
)
```

```
Text(  
    text = "GaurGopalDas Returns To TRS - Life, Monkhood & Spirituality",  
    textAlign = TextAlign.Center,  
    modifier = Modifier.padding(start = 20.dp, end = 20.dp)  
)
```

```
Row() {
```

```
    IconButton(onClick = { mp.start() }, modifier = Modifier.size(35.dp)) {  
        Icon(  
            painter = painterResource(id = R.drawable.play),  
            contentDescription = ""  
        )  
    }  
}
```

```
    IconButton(onClick = { mp.pause() }, modifier = Modifier.size(35.dp)) {  
        Icon(  
            painter = painterResource(id = R.drawable.pause),  
            contentDescription = ""  
        )  
    }  
}
```



```
    )  
  }  
}  
}
```

```
Card(  
    elevation = 12.dp,  
    border = BorderStroke(1.dp, Color.Magenta),  
    modifier = Modifier  
        .padding(16.dp)  
        .fillMaxWidth()  
        .height(250.dp)  
)  
{  
    val mp: MediaPlayer = MediaPlayer.create(context, R.raw.audio_1)  
  
    Column(  
        modifier = Modifier.fillMaxSize(),  
        horizontalAlignment = Alignment.CenterHorizontally
```

```
)  
    }  
  }  
}  
}
```

```
Card(  
    elevation = 12.dp,  
    border = BorderStroke(1.dp, Color.Magenta),  
    modifier = Modifier  
        .padding(16.dp)  
        .fillMaxWidth()  
        .height(250.dp)  
)  
{  
    val mp: MediaPlayer = MediaPlayer.create(context, R.raw.audio_1)  
  
    Column(  
        modifier = Modifier.fillMaxSize(),  
        horizontalAlignment = Alignment.CenterHorizontally
```

```
) {
```

```
Image(  
    painter = painterResource(id = R.drawable.img_1),  
    contentDescription = null,  
    modifier = Modifier  
        .height(150.dp)  
        .width(200.dp)  
)
```

```
Text(  
    text = "Haunted Houses, Evil Spirits & The Paranormal Explained | Sarbajeet Mohanty",  
    textAlign = TextAlign.Center,  
    modifier = Modifier.padding(start = 20.dp, end = 20.dp)  
)
```

```
Row() {  
  
    IconButton(onClick = { mp.start() }, modifier = Modifier.size(35.dp)) {  
        Icon(  
            painter = painterResource(id = R.drawable.play),  
            contentDescription = ""  
        )  
    }  
}
```

```
}
```

```
    IconButton(onClick = { mp.pause() }, modifier = Modifier.size(35.dp)) {  
        Icon(  
            painter = painterResource(id = R.drawable.pause),  
            contentDescription = ""  
        )  
    }  
}
```

```
}
```

```
}
```

```
Card(  
    elevation = 12.dp,  
    border = BorderStroke(1.dp, Color.Magenta),  
    modifier = Modifier  
        .padding(16.dp)  
        .fillMaxWidth()  
        .height(250.dp)
```

```
)  
{  
    val mp: MediaPlayer = MediaPlayer.create(context, R.raw.audio_2)  
  
    Column(  
        modifier = Modifier.fillMaxSize(),  
        horizontalAlignment = Alignment.CenterHorizontally  
    ){  
  
        Image(  
            painter = painterResource(id = R.drawable.img_2),  
            contentDescription = null,  
            modifier = Modifier  
                .height(150.dp)  
                .width(200.dp)  
        )  
  
        Text(  
            text = "Kaali Mata ki kahani - Black Magic & Aghoris ft. Dr Vineet Aggarwal",  
            textAlign = TextAlign.Center,  
            modifier = Modifier.padding(start = 20.dp, end = 20.dp)  
        )  
    }  
}
```

```
Row() {
```

```
    IconButton(onClick = { mp.start() }, modifier = Modifier.size(35.dp)) {  
        Icon(  
            painter = painterResource(id = R.drawable.play),  
            contentDescription = ""  
        )  
    }  
}
```

```
    IconButton(onClick = { mp.pause() }, modifier = Modifier.size(35.dp)) {  
        Icon(  
            painter = painterResource(id = R.drawable.pause),  
            contentDescription = ""  
        )  
    }  
}
```

```
}
```

```
}
```

```
Card(  
    elevation = 12.dp,
```

```
border = BorderStroke(1.dp, Color.Magenta),
    modifier = Modifier
        .padding(16.dp)
        .fillMaxWidth()
        .height(250.dp)
)
{
    val mp: MediaPlayer = MediaPlayer.create(context, R.raw.audio_3)

    Column(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment = Alignment.CenterHorizontally
    ) {
        Image(
            painter = painterResource(id = R.drawable.img_3),
            contentDescription = null,
            modifier = Modifier
                .height(150.dp)
                .width(200.dp),

            )
```

Text(

```
text = "Tantra Explained Simply | Rajarshi Nandy - Mata, Bhairav & Kamakhya Devi",  
textAlign = TextAlign.Center,  
modifier = Modifier.padding(start = 20.dp, end = 20.dp)
```

)

Row() {

```
IconButton(onClick = { mp.start() }, modifier = Modifier.size(35.dp)) {
```

```
    Icon(
```

```
        painter = painterResource(id = R.drawable.play),
```

```
        contentDescription = ""
```

```
    )
```

```
}
```

```
IconButton(onClick = { mp.pause() }, modifier = Modifier.size(35.dp)) {
```

```
    Icon(
```

```
        painter = painterResource(id = R.drawable.pause),
```

```
        contentDescription = ""
```

```
    )
```

```
}
```

```
}
```

```
}
```



```
}
```

```
Card(
```

```
    elevation = 12.dp,
```

```
    border = BorderStroke(1.dp, Color.Magenta),
```

```
    modifier = Modifier
```

```
        .padding(16.dp)
```

```
        .fillMaxWidth()
```

```
        .height(250.dp)
```

```
)
```

```
{
```

```
    val mp: MediaPlayer = MediaPlayer.create(context, R.raw.audio_4)
```

```
    Column(
```

```
        modifier = Modifier.fillMaxSize(),
```

```
        horizontalAlignment = Alignment.CenterHorizontally
```

```
) {
```

```
    Image(
```

```
        painter = painterResource(id = R.drawable.img_4),
```

```
        contentDescription = null,
```

```
modifier = Modifier
```

```
    .height(150.dp)
```

```
    .width(200.dp),
```

```
)
```

```
Text(
```

```
    text = "Complete Story Of Shri Krishna - Explained In 20 Minutes",
```

```
    textAlign = TextAlign.Center,
```

```
    modifier = Modifier.padding(start = 20.dp, end = 20.dp)
```

```
)
```

```
Row() {
```

```
    IconButton(onClick = { mp.start() }, modifier = Modifier.size(35.dp)) {
```

```
        Icon(
```

```
            painter = painterResource(id = R.drawable.play),
```

```
            contentDescription = ""
```

```
        )
```

```
    }
```

```
    IconButton(onClick = { mp.pause() }, modifier = Modifier.size(35.dp)) {
```

```
        Icon(
```

```
            painter = painterResource(id = R.drawable.pause),
```

```
contentDescription = ""  
    )  
    }  
    }  
    }  
}
```

```
Card(  
    elevation = 12.dp,  
    border = BorderStroke(1.dp, Color.Magenta),  
    modifier = Modifier  
        .padding(16.dp)  
        .fillMaxWidth()  
        .height(250.dp)  
)  
{  
    val mp: MediaPlayer = MediaPlayer.create(context, R.raw.audio_5)  
  
    Column(  
        modifier = Modifier.fillMaxSize(),
```

```
horizontalAlignment = Alignment.CenterHorizontally
```

```
) {
```

```
Image(
```

```
    painter = painterResource(id = R.drawable.img_5),
```

```
    contentDescription = null,
```

```
    modifier = Modifier
```

```
        .height(150.dp)
```

```
        .width(200.dp),
```

```
)
```

```
Text(
```

```
    text = "Mahabharat Ki Poori Kahaani - Arjun, Shri Krishna & Yuddh - Ami Ganatra ",
```

```
    textAlign = TextAlign.Center,
```

```
    modifier = Modifier.padding(start = 20.dp, end = 20.dp)
```

```
)
```

```
Row() {
```

```
    IconButton(onClick = { mp.start() }, modifier = Modifier.size(35.dp)) {
```

```
        Icon(
```

```
            painter = painterResource(id = R.drawable.play),
```

```
            contentDescription = ""
```

```
)
```

```
}
```

```
IconButton(onClick = { mp.pause() }, modifier = Modifier.size(35.dp)) {
```

```
    Icon(
```

```
        painter = painterResource(id = R.drawable.pause),
```

```
        contentDescription = ""
```

```
    )
```

```
}
```

```
}
```

```
}
```

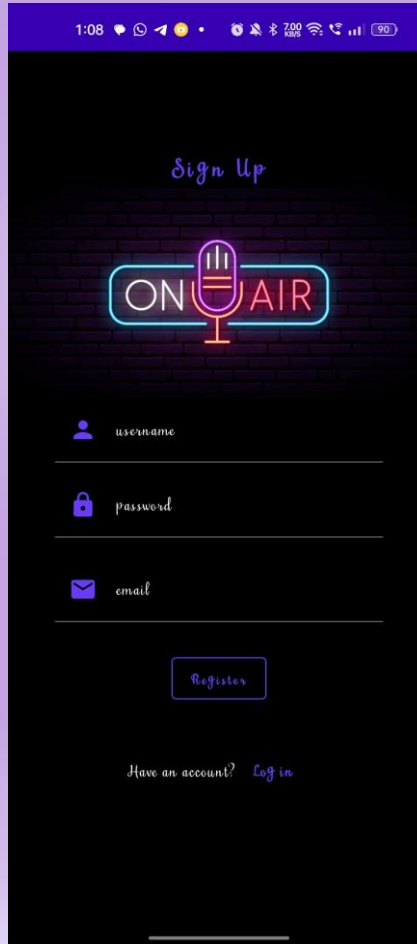
```
}
```

```
}
```

```
}
```

```
}
```

OUTPUT:

A mobile application interface for signing up. The screen has a black background with a brick wall pattern. At the top, the status bar shows the time 1:08, various icons, and a 90% battery level. The title "Sign Up" is centered in a light blue script font. Below it is a logo consisting of a microphone icon inside a rounded rectangle, with the words "ON" and "AIR" on either side, all in a glowing neon style. There are three input fields: "username" with a person icon, "password" with a lock icon, and "email" with an envelope icon. Each field has a light blue underline. Below the fields is a "Register" button with a light blue border and text. At the bottom, there is a link "Have an account? Log in" in a light blue script font.

1:08

Sign Up

ON AIR

username

password

email

Register

Have an account? [Log in](#)



PODCAST *Wave*

LOGIN



username



password

Log In

[Sign up](#)

[Forgot password ?](#)

PODCAST



GaurGopalDas Returns To TRS - Life, Monkhood & Spirituality



Haunted Houses, Evil Spirits & The Paranormal Explained | Sarbajeet Mohanty



1:09

PODCAST

Tantra Explained Simply | Rajarshi Nandy - Mata,
Bhairav & Kamakhya Devi



Complete Story Of Shri Krishna - Explained In 20
Minutes



Mahabharat Ki Poori Kahaani - Arjun, Shri Krishna
& Yuddh - Anni Ganatra



Conclusion

The completion of Podcast Plus: A Redux-Inspired Podcast App with Dynamic Themes for Android represents a significant achievement in enhancing the podcast listening experience. By incorporating Redux-inspired state management and dynamic theming, the app delivers seamless performance while allowing users to personalize their interface, creating a unique and engaging platform. This project showcases the synergy between modern design principles and robust development methodologies, offering a solution that is both functional and visually appealing. With its innovative approach, Podcast Plus sets a new standard for podcasting applications, blending technology and creativity to redefine how users interact with their favorite content.