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Flutter Program: Xylophone App Observation

Main.dart

```
import 'package:flutter/material.dart';
import 'package:audioplayers/audio_players.dart';

void main() {
  runApp(
    MaterialApp(
      home: Scaffold(
        appBar: AppBar(title: Text('XYLOPHONE'), centerTitle: true),
        body: XyloPage(),
      ),
    ),
  );
}

class XyloPage extends StatefulWidget {
  const XyloPage({Key? key}) : super(key: key);

  @override
  _XyloPageState createState() => _XyloPageState();
}

class _XyloPageState extends State<XyloPage> {
  void playSound(int noteNumber) {
    final player = AudioCache();
    player.play("note$noteNumber.wav");
  }

  @override
  Widget build(BuildContext context) {
    return Column(
      crossAxisAlignment: CrossAxisAlignment.stretch,
      children: [
        Expanded(
          child: TextButton(
            style: TextButton.styleFrom(
              backgroundColor: Colors.amber,
            ),
            onPressed: () {
              playSound(1);
            },
            child: Text('First'),
          ),
        ),
        Expanded(
          child: TextButton(
            style: TextButton.styleFrom(
              backgroundColor: Colors.cyanAccent,
            ),
            onPressed: () {
              playSound(2);
            },
            child: Text('Second'),
          ),
        ),
      ],
    );
  }
}
```

```

    ),
    // Similarly, implement the other expanded widgets 5 times and call
    playSound(number)
    Expanded(
      child: TextButton(
        style: TextButton.styleFrom(
          backgroundColor: Colors.blue,
        ),
        onPressed: () {
          playSound(3);
        },
        child: Text('Third'),
      ),
    ),
    Expanded(
      child: TextButton(
        style: TextButton.styleFrom(
          backgroundColor: Colors.green,
        ),
        onPressed: () {
          playSound(4);
        },
        child: Text('Fourth'),
      ),
    ),
    Expanded(
      child: TextButton(
        style: TextButton.styleFrom(
          backgroundColor: Colors.orange,
        ),
        onPressed: () {
          playSound(5);
        },
        child: Text('Fifth'),
      ),
    ),
    Expanded(
      child: TextButton(
        style: TextButton.styleFrom(
          backgroundColor: Colors.red,
        ),
        onPressed: () {
          playSound(6);
        },
        child: Text('Sixth'),
      ),
    ),
    Expanded(
      child: TextButton(
        style: TextButton.styleFrom(
          backgroundColor: Colors.purple,
        ),
        onPressed: () {
          playSound(7);
        },
        child: Text('Seventh'),
      ),
    ),
  ],
);

```

pubspec.yaml

```
dependencies:
  flutter:
    sdk: flutter
  cupertino_icons: ^1.0.2
  audioplayers: ^0.19.1

dev_dependencies:
  flutter_test:
    sdk: flutter
  flutter_lints: ^2.0.0

# For information on the generic Dart part of this file, see the
# following page: https://dart.dev/tools/pub/pubspec

# The following section is specific to Flutter packages.
flutter:
  uses-material-design: true
  assets:
    - assets/
```

