

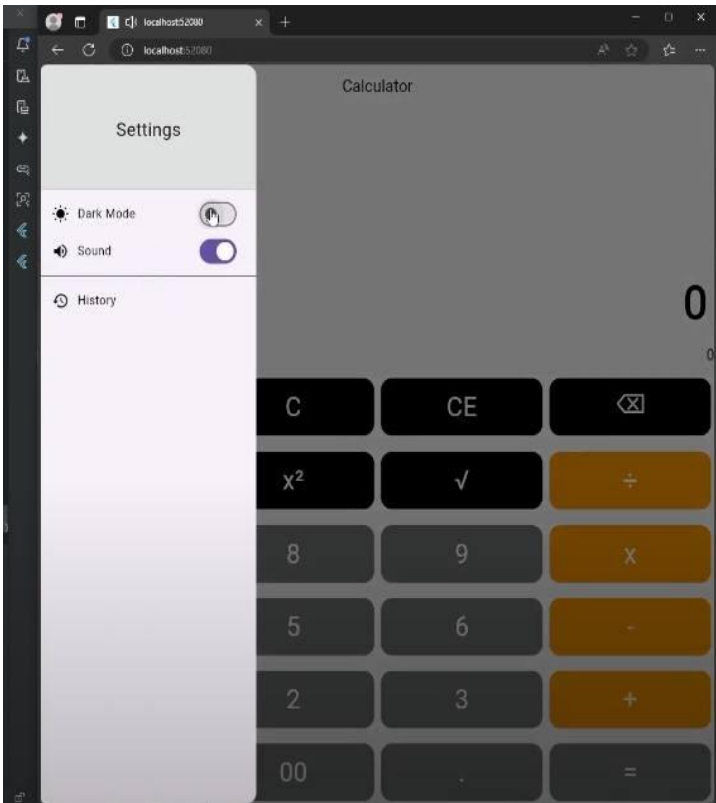
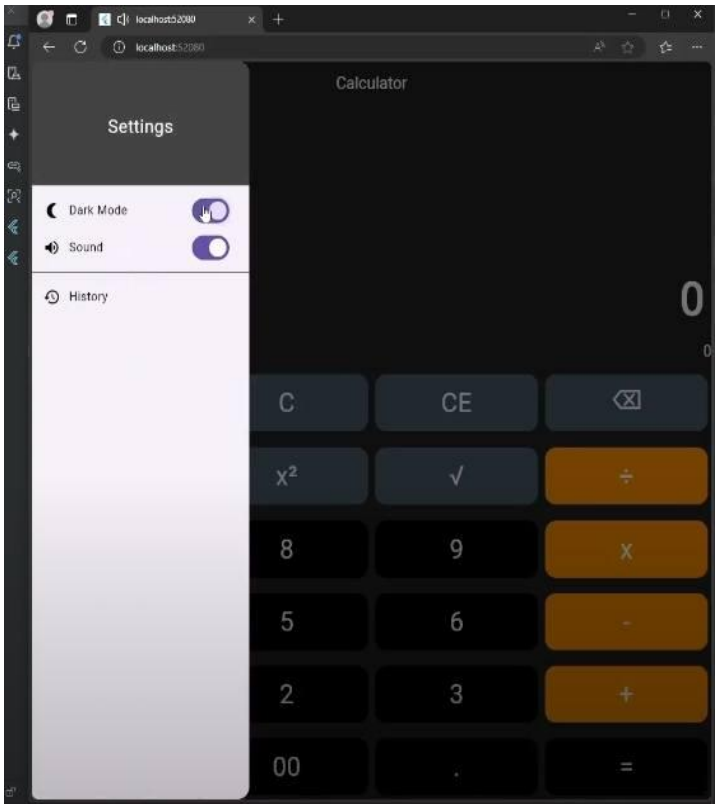
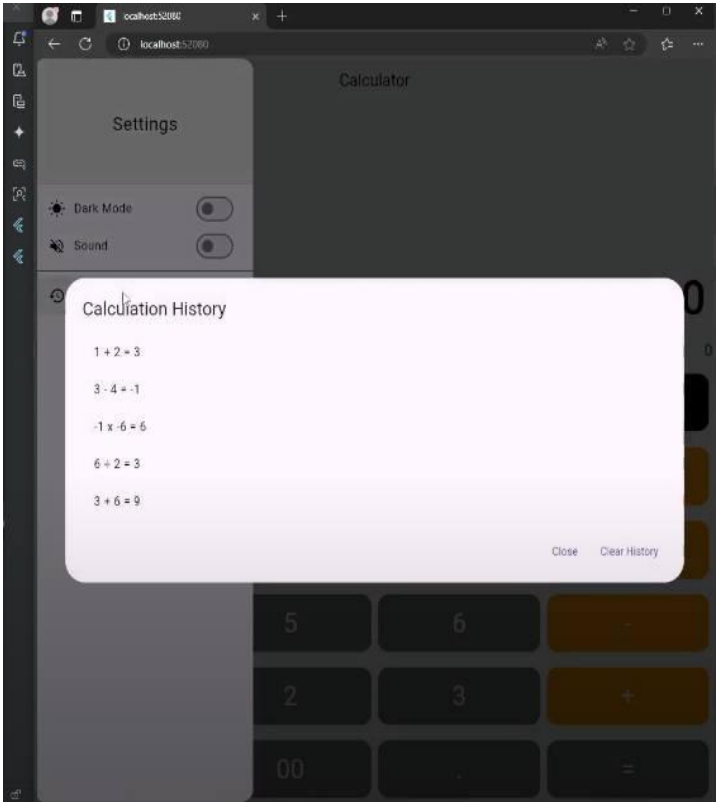
ULTIMUS CALCULATOR

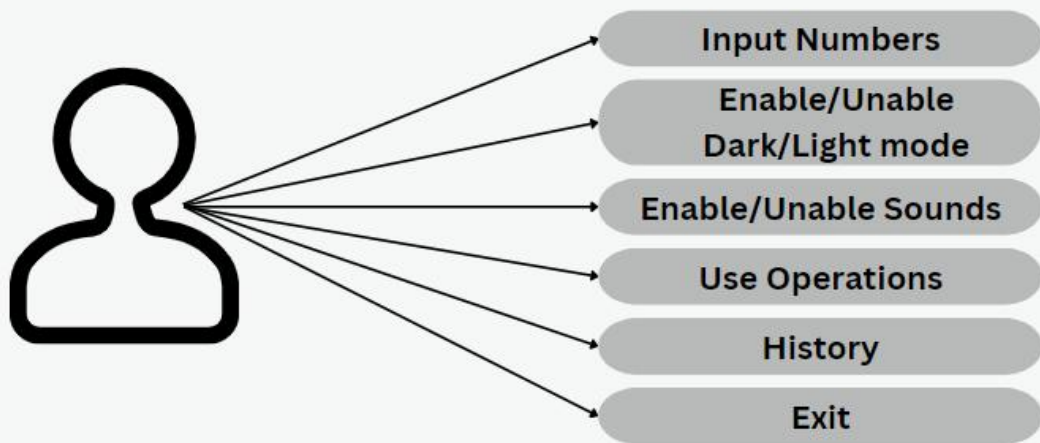
Zhaira Jeane Bryne Cielo

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Jay Arbel Jorda

This Calculator App, designed to enhance your daily calculations. This app combines practical functionality with personalized aesthetics, offering both Dark Mode and Light Mode themes to suit your environment, alongside intuitive sound effects for a more interactive experience. This calculator simplifies the process of computing variance and standard deviation. It provides an easy way to handle these statistical calculations. As a result, users can perform quantitative analysis more efficiently.






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C:\Users> franc > AppData > Local > Temp > 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595 > calcu_ni_aljur_walasounds > lib > sounds try.dart

28 class _CalculatorState extends State<Calculator> {
53   void calculation(txtbtn) {
88   } else if (txtbtn == '√') {
89     finalResult = doesContainDecimal(result);
90   } else if (txtbtn == '-') {
91     if (opr != '') {
92       numTwo = double.parse(result);
93       expression = '$numOne $opr $numTwo';
94       if (opr == '+') {
95         finalResult = add();
96       } else if (opr == '-') {
97         finalResult = sub();
98       } else if (opr == 'x') {
99         finalResult = mul();
100      } else if (opr == '÷') {
101        finalResult = div();
102      }
103      opr = '';
104      history.add('$expression = $finalResult');
105    }
106  } else if (txtbtn == '+' || txtbtn == '-' || txtbtn == 'x' || txtbtn == '÷') {
107    if (numOne == 0 || (opr == '' && result != '')) {
108      numOne = double.parse(result);
109    } else if (result != '') {
110      numTwo = double.parse(result);
111    }
112    if (opr == '+') {
113      finalResult = add();
114    } else if (opr == '-') {
115      finalResult = sub();
116    }
117  }
118 }

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF Dart
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117   } else if (opr == 'x') {
118     finalResult = mul();
119   } else if (opr == '÷') {
120     finalResult = div();
121   }
122   numOne = double.parse(finalResult);
123 }
124 opr = txtbtn;
125 result = '';
126 } else if (txtbtn == '%') {
127   if (numOne != 0) {
128     result = (numOne * (double.parse(result) / 100)).toString();
129   } else {
130     result = (double.parse(result) / 100).toString();
131   }
132   finalResult = doesContainDecimal(result);
133 } else if (txtbtn == '.') {
134   if (!result.toString().contains('.')) {
135     result = result.toString() + '.';
136   }
137   finalResult = result;
138 } else if (txtbtn == '←') {
139   result.toString().startsWith('-')
140     ? result = result.toString().substring(1)
141     : result = '-' + result.toString();
142   finalResult = result;
143 } else {
144   result = result + txtbtn;
145   finalResult = result;
146 }
147 setState() {
148 }

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF Dart
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149   text = finalResult;
150 });
151 }
152
153 String add() {
154   result = (numOne + numTwo).toString();
155   numOne = double.parse(result);
156   return doesContainDecimal(result);
157 }
158
159 String sub() {
160   result = (numOne - numTwo).toString();
161   numOne = double.parse(result);
162   return doesContainDecimal(result);
163 }
164
165 String mul() {
166   result = (numOne * numTwo).toString();
167   numOne = double.parse(result);
168   return doesContainDecimal(result);
169 }
170
171 String div() {
172   result = (numOne / numTwo).toString();
173   numOne = double.parse(result);
174   return doesContainDecimal(result);
175 }
176
177
178 String doesContainDecimal(dynamic result) {
179   if (result.toString().contains('.')) {
180     List<String> splitDecimal = result.toString().split('.');
181   }
182 }

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF Dart
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File Edit Selection View Go Run ... Search
calcu_ni_aljur_walasounds.iml widget_test.dart sounds try.dart
C:\Users> franc > AppData > Local > Temp > 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595 > calcu_ni_aljur_walasounds > lib > sounds try.dart
180 List<String> splitDecimal = result.toString().split('.');
181 if (!int.parse(splitDecimal[1]) > 0)
182   return result = splitDecimal[0].toString();
183 }
184 return result;
185 }
186
187 // void PlayAudio(String fileName) async {
188 //   final player = AudioPlayer();
189 //   player.play('fileName');
190 // }
191
192
193
194 Widget calbutton(String txtbtn, Color btnclr, Color txtclr, String fileName) {
195   return Expanded(
196     child: Container(
197       margin: const EdgeInsets.all(5.0),
198       child: ElevatedButton(
199         onPressed: () {
200           calculation(txtbtn);
201           final player = AudioPlayer();
202           if (isSoundEnabled) {
203             player.play(fileName);
204           }
205         },
206         child: Text(txtbtn,
207           style: TextStyle(
208             fontSize: 35,
209             color: txtclr,
210           ),
211         ),
212       ),
213     ),
214   );
215 }
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File Edit Selection View Go Run ... Search
calcu_ni_aljur_walasounds.iml widget_test.dart sounds try.dart
C:\Users> franc > AppData > Local > Temp > 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595 > calcu_ni_aljur_walasounds > lib > sounds try.dart
212 style: ElevatedButton.styleFrom(
213   shape: RoundedRectangleBorder(
214     borderRadius: BorderRadius.circular(15),
215   ),
216   backgroundColor: btnclr,
217   padding: EdgeInsets.all(20),
218 ),
219 ),
220 ),
221 );
222
223 Color getButtonColor(String txtbtn) {
224   if (txtbtn == '-' || txtbtn == 'x' || txtbtn == '-' || txtbtn == '+') {
225     return isDarkMode ? Colors.amber.shade800 : Colors.orange;
226   } else if (txtbtn == 'C' || txtbtn == 'CE' || txtbtn == 'CE' || txtbtn == '%')
227     || txtbtn == 'CE' || txtbtn == 'CE' || txtbtn == 'CE' {
228     return isDarkMode ? Colors.blueGrey.shade700 : Colors.black;
229   } else {
230     return isDarkMode ? Colors.black : Colors.grey.shade600;
231   }
232 }
233
234 Color getButtonTextcolor(String txtbtn) {
235   return isDarkMode ? Colors.white : Colors.white;
236 }
237
238 @override
239 Widget build(BuildContext context) {
240   return Scaffold(
241     backgroundColor: isDarkMode ? Colors.grey.shade900 : Colors.white,
242     appBar: AppBar(
243       title: Text(
244         "Calculator",
245       ),
246       style: TextStyle(color: isDarkMode ? Colors.white : Colors.black),
247     ),
248     backgroundColor: isDarkMode ? Colors.grey.shade900 : Colors.white,
249     centerTitle: true,
250     leading: Builder(
251       builder: (context) => IconButton(
252         icon: Icon(
253           Icons.menu,
254           color: isDarkMode ? Colors.white : Colors.black,
255         ),
256         onPressed: () {
257           Scaffold.of(context).openDrawer();
258         },
259       ),
260     ),
261     drawer: Drawer(
262       child: Column(
263         children: [
264           DrawerHeader(
265             decoration: BoxDecoration(
266               color: isDarkMode ? Colors.grey.shade800 : Colors.grey.shade300,
267             ),
268             child: Center(
269               child: Text(
270                 'Settings',
271                 style: TextStyle(
272                   fontSize: 24,
273                   color: isDarkMode ? Colors.white : Colors.black,
274                 ),
275               ),
276             ),
277           ),
278         ],
279       ),
280     ),
281   );
282 }
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243 "Calculator",
244 style: TextStyle(color: isDarkMode ? Colors.white : Colors.black),
245 ),
246 backgroundColor: isDarkMode ? Colors.grey.shade900 : Colors.white,
247 centerTitle: true,
248 leading: Builder(
249   builder: (context) => IconButton(
250     icon: Icon(
251       Icons.menu,
252       color: isDarkMode ? Colors.white : Colors.black,
253     ),
254     onPressed: () {
255       Scaffold.of(context).openDrawer();
256     },
257   ),
258 ),
259
260 drawer: Drawer(
261   child: Column(
262     children: [
263       DrawerHeader(
264         decoration: BoxDecoration(
265           color: isDarkMode ? Colors.grey.shade800 : Colors.grey.shade300,
266         ),
267         child: Center(
268           child: Text(
269             'Settings',
270             style: TextStyle(
271               fontSize: 24,
272               color: isDarkMode ? Colors.white : Colors.black,
273             ),
274           ),
275         ),
276       ),
277     ],
278   ),
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C:\Users> franc > AppData > Local > Temp > 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595 > calcu_ni_aljur_walasounds > lib > sounds try.dart

275
276
277 ListTile(
278   leading: Icon(
279     isDarkMode ? Icons.nightlight_round : Icons.wb_sunny,
280     color: isDarkMode ? Colors.black : Colors.black,
281   ),
282   title: Text(
283     'Dark Mode',
284     style: TextStyle(
285       color: isDarkMode ? Colors.black : Colors.black,
286     ),
287   ),
288   trailing: Switch(
289     value: isDarkMode,
290     onChanged: (value) {
291       toggleDarkMode();
292     },
293   ),
294 ),
295 ListTile(
296   leading: Icon(
297     isSoundEnabled ? Icons.volume_up : Icons.volume_off,
298     color: isDarkMode ? Colors.black : Colors.black,
299   ),
300   title: Text(
301     'Sound',
302     style: TextStyle(
303       color: isDarkMode ? Colors.black : Colors.black,
304     ),
305   ),
306   trailing: Switch(
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307   value: isSoundEnabled,
308   onChanged: (value) {
309     toggleSound(value);
310   },
311 ),
312 ),
313 Divider(color: isDarkMode ? Colors.black : Colors.black),
314 ListTile(
315   leading: Icon(
316     Icons.history,
317     color: isDarkMode ? Colors.black : Colors.black,
318   ),
319   title: Text(
320     'History',
321     style: TextStyle(
322       color: isDarkMode ? Colors.black : Colors.black,
323     ),
324   ),
325   onTap: () {
326     showDialog(
327       context: context,
328       builder: (BuildContext context) {
329         return AlertDialog(
330           title: Text('Calculation History'),
331           content: Container(
332             width: double.maxFinite,
333             child: ListView.builder(
334               shrinkWrap: true,
335               itemCount: history.length,
336               itemBuilder: (BuildContext context, int index) {
337                 return ListTile(
338                   title: Text(
```

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File Edit Selection View Go Run ... Search
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338   title: Text(
339     history[index],
340     style: TextStyle(
341       color: isDarkMode
342         ? Colors.white
343         : Colors.black,
344     ),
345   ),
346 ),
347 ),
348 ),
349 ),
350 actions: <Widget>[
351   TextButton(
352     onPressed: () {
353       Navigator.of(context).pop();
354     },
355     child: Text('Close'),
356   ),
357   TextButton(
358     onPressed: () {
359       setState(() {
360         history.clear();
361       });
362       Navigator.of(context).pop();
363     },
364     child: Text('Clear History'),
365   ),
366 ],
367 ),
368 ),
369 );
```

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File Edit Selection View Go Run ... Search
calcu_ni_aljur_walasounds.iml widget_test.dart sounds try.dart
C:\Users> franc > AppData > Local > Temp > 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595 > calcu_ni_aljur_walasounds > lib > sounds try.dart
370 //
371 //
372 //
373 //
374 //
375 body: Column(
376   mainAxisAlignment: MainAxisAlignment.end,
377   children: <Widget>[
378     Container(
379       padding: EdgeInsets.all(10),
380       child: Text(
381         text,
382         style: TextStyle(
383           color: isDarkMode ? Colors.white : Colors.black,
384           fontSize: 60,
385           fontWeight: FontWeight.w600,
386         ),
387       ),
388       alignment: Alignment(1.0, 1.0),
389     ),
390 // Widget build(BuildContext context) {
391 //   return Scaffold(
392 //     backgroundColor: isDarkMode ? Colors.grey.shade900 : Colors.white,
393 //     appBar: AppBar(
394 //       title: Text(
395 //         "Calculator",
396 //         style: TextStyle(color: isDarkMode ? Colors.white : Colors.black),
397 //       ),
398 //       backgroundColor: isDarkMode ? Colors.grey.shade900 : Colors.white,
399 //       centerTitle: true,
400 //       leading: IconButton(

```

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File Edit Selection View Go Run ... Search
calcu_ni_aljur_walasounds.iml widget_test.dart sounds try.dart
C:\Users> franc > AppData > Local > Temp > 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595 > calcu_ni_aljur_walasounds > lib > sounds try.dart
401 //   leading: IconButton(
402 //     icon: Text(
403 //       'X',
404 //       style: TextStyle(
405 //         fontSize: 24,
406 //         color: isDarkMode ? Colors.white : Colors.black,
407 //       ),
408 //     ),
409 //     onPressed: () {
410 //       toggleDarkMode();
411 //     },
412 //   ),
413 //   actions: [
414 //     Text('C', style: TextStyle(
415 //       fontSize: 24,
416 //       color: isDarkMode ? Colors.white : Colors.black,
417 //     ),
418 //   ),
419 //     Switch(
420 //       value: isSoundEnabled,
421 //       onChanged: toggleSound,
422 //       activeColor: Colors.greenAccent,
423 //       inactiveThumbColor: Colors.grey,
424 //     ),
425 //     IconButton(
426 //       icon: Icon(Icons.delete),
427 //       onPressed: () {
428 //         setState(() {
429 //           history.clear();
430 //         });
431 //       },
432 //     ),

```

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File Edit Selection View Go Run ... Search
calcu_ni_aljur_walasounds.iml widget_test.dart sounds try.dart
C:\Users> franc > AppData > Local > Temp > 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595 > calcu_ni_aljur_walasounds > lib > sounds try.dart
433 //   ],
434 // ),
435 // ),
436 // body: GestureDetector(
437 //   onHorizontalDragEnd: (details) {
438 //     if (details.primaryVelocity! < 10) {
439 //       setState(() {
440 //         calculation('C');
441 //       });
442 //     }
443 //   ),
444 //   child: Column(
445 //     children: [
446 //       // Display History
447 //       Expanded(
448 //         child: ListView.builder(
449 //           itemCount: history.length,
450 //           itemBuilder: (context, index) {
451 //             return ListTile(
452 //               title: Text(
453 //                 history[index],
454 //                 style: TextStyle(
455 //                   color: isDarkMode ? Colors.white : Colors.black,
456 //                   fontSize: 18,
457 //                 ),
458 //               ),
459 //             );
460 //           },
461 //         ),
462 //       ),
463 //       Padding(
464 //         padding: EdgeInsets.symmetric(horizontal: 5),

```



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C:\Users\franc> AppData> Local> Temp> 4f5c2123-5f5e-49f9-9c3a-1cf21ea99595_final_calculator.zip.595> calcu_ni_aljur_walasounds> lib> sounds try.dart

546 mainAxisSizeAlignment: MainAxisAlignment.spaceEvenly,
547 children: [
548   calbutton('1', getButtonColor('1'), getButtonTextColor('1'), 'assets/E4.wav'),
549   calbutton('2', getButtonColor('2'), getButtonTextColor('2'), 'assets/E5.wav'),
550   calbutton('3', getButtonColor('3'), getButtonTextColor('3'), 'assets/F3.wav'),
551   calbutton('+', getButtonColor('+'), getButtonTextColor('+'), 'assets/F4.wav'),
552 ],
553 ),
554 SizedBox(height: 10),
555 Row(
556   mainAxisAlignment: MainAxisAlignment.spaceEvenly,
557   children: [
558     calbutton('0', getButtonColor('0'), getButtonTextColor('0'), 'assets/F5.wav'),
559     calbutton('00', getButtonColor('00'), getButtonTextColor('00'), 'assets/G3.wav'),
560     calbutton('.', getButtonColor('.'), getButtonTextColor('.'), 'assets/G4.wav'),
561     calbutton('=', getButtonColor('='), getButtonTextColor('='), 'assets/G5.wav'),
562   ],
563 ),
564 ],
565 ),
566 );
567 }
568 }
```