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HUAWEI DEVELOPER CONFERENCE 2021





轻松玩转新一代UI编程框架开发实战



UI界面开发面临的问题

2 UI界面开发解决方案

demo演示



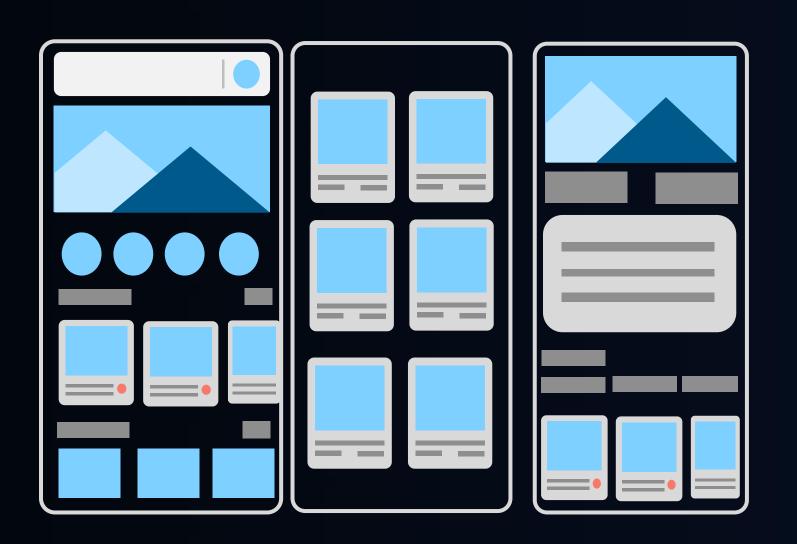
华 为 开 发 者 大 会 2 0 2 1

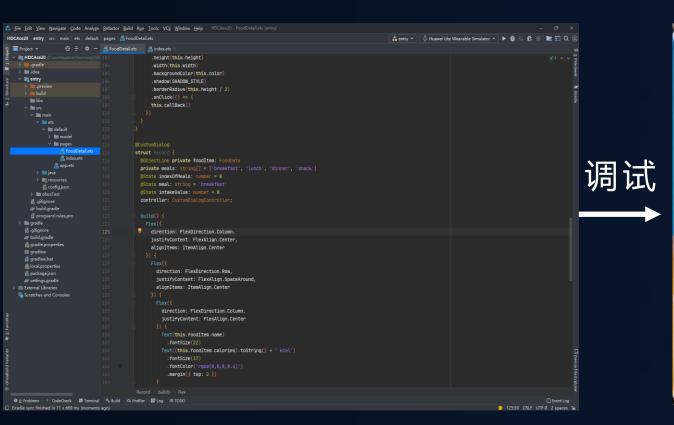
UI界面开发面临的问题

界面重复开发

界面调试难

尺寸交互多样化





















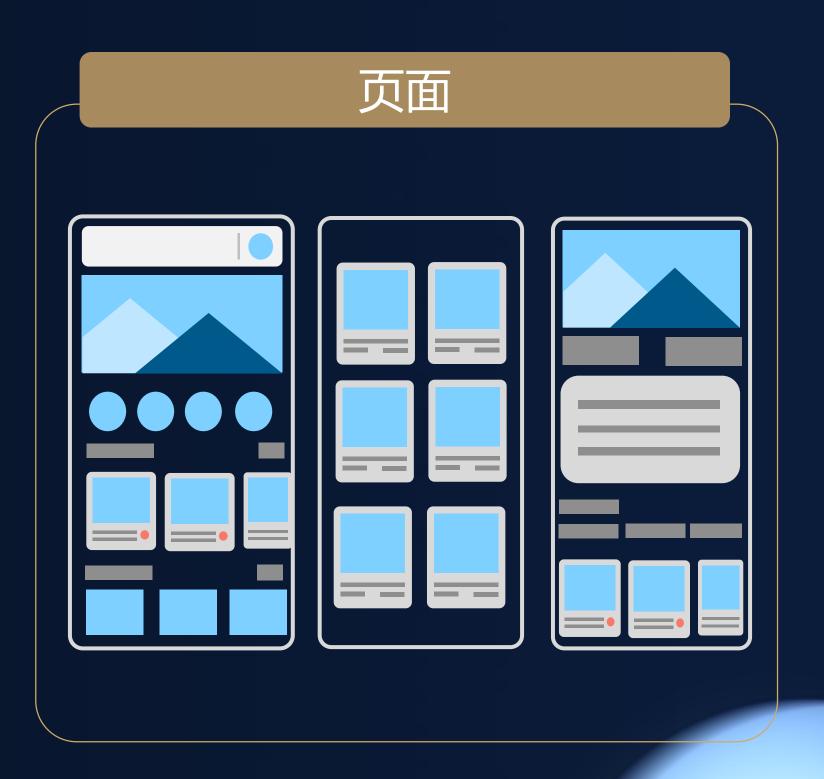




如何解决界面重复开发-组件重用与组合









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基础组件

容器组件

媒体组件

绘制组件

动画组件

































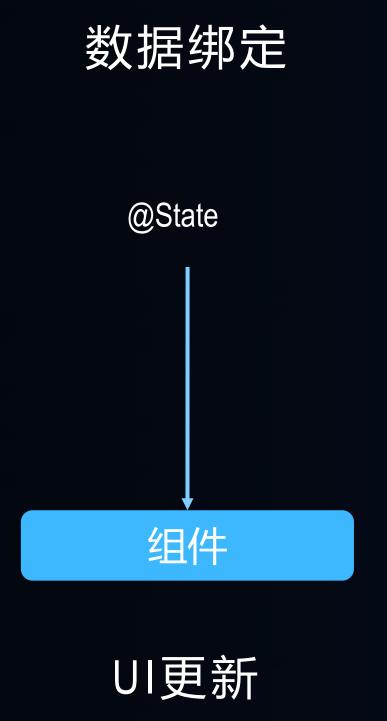


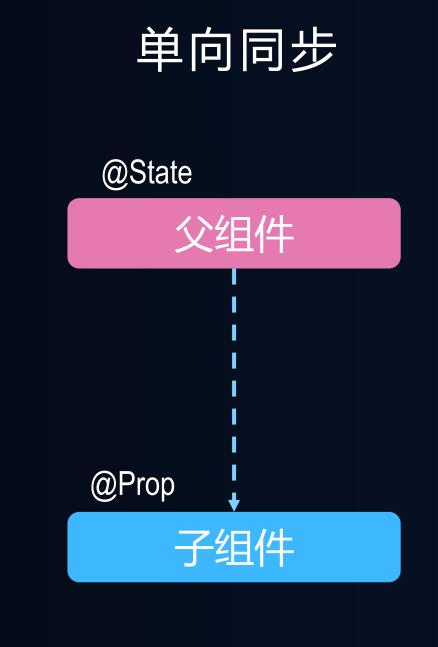




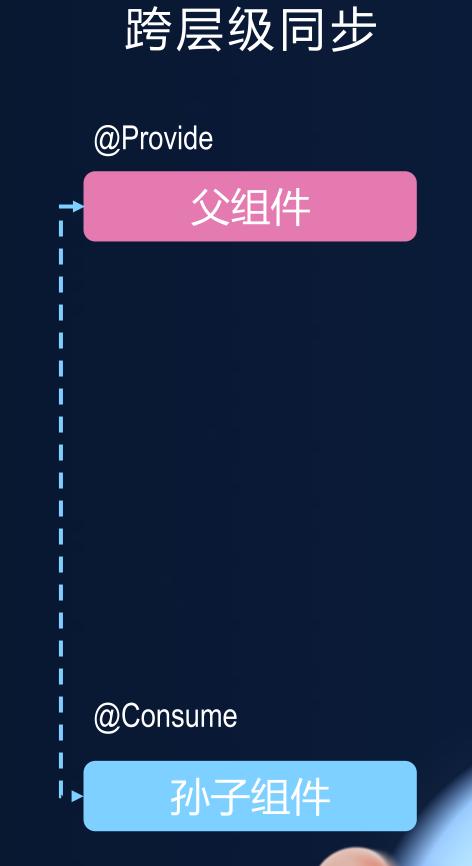
如何解决界面重复开发-组件状态同步











如何解决界面重复开发-组件预览

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组件预览 组合预览 页面预览

```
⊕ 🛨 💠 — 🚜 FoodDetail.ets
■ Ohos ▼
                                                                                                                                 entry : default/pages/FoodDetail
                                          import router from '@system.router'
entry
                                                                                                                      ≾1 ^ ∨
  ets
                                          import {FoodData, Category} from '../model/FoodData'
                                          import {updateIntake, getDefaultFoodData} from '../model/FoodDataModels'
      > model
      pages
                                          const SHADOW_STYLE = {
           # FoodDetail.ets
                                            radius: 5,
           🏭 index.ets
                                            color: '#66c9c9c9',
        app.ets
                                            offsetX: 5,
   > test
                                            offsetY: 5
  > 🖿 java
  > configuration
  > resources
> configuration
                                          @Component
                                          struct PageTitle {
                                            build() {
                               14
                                              Flex({
                                                 alignItems: ItemAlign.Center
                                              }) {
                                                 Image($r('app.media.Back'))
                                                   .width(20)
                                                   .objectFit(ImageFit.Contain)
                                                   .opacity(0.7)
                                                   .onClick(() => {
                                                  router.back()
                                                 Text('Food Information')
                                                   .fontWeight(FontWeight.Bold)
                                                   .fontSize(20)
                                                   .margin({ left: 16 })
                                                   .opacity(0.7)
                                                   .fontColor('#FF000000')
                               30
                                               .height('8%')
                                               .padding({ left: 16 })
                                          @Component
                                          struct FoodImageDisplay {
                                            private foodItem: FoodData = getDefaultFoodData();
                                            build() {
                                          Stack({ alignContent: Alignment.BottomStart }) {
                                           Component → PageTitle → build()
```

No available components to be previewed. Add @Preview on the component for preview.

如何解决界面调试难-双向预览



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双向定位关联界面和代码, 更快发现界面问题

```
# FoodDetail.ets
           const SHADOW_STYLE = {
                                                                                           entry: default/pages/FoodDetail
                                                                                                                                                 Component Tree
              radius: 5,
              color: '#66c9c9c9',
                                                                                                               Phone (medium)
             offsetX: 5,
                                                                                                                                                ▶ 🔓 Flex
              offsetY: 5
11
                                                                                                       ← Food Detail
            @Component
           struct PageTitle {
              build() {
                Flex({
                  alignItems: ItemAlign.Center
                  Image($r('app.media.Back'))
                                                                                                        Tomato
                     .width(20)
                     .objectFit(ImageFit.Contain)
                                                                                                                Calories
                                                                                                                             17kcal
                     .opacity(0.7)
                                                                                                                                                 Attributes
                     .onClick(() => {
                     router.back()
                                                                                                                                                       Select a component.
                                                                                                                              0.2g
                  Text('Food Detail')
                                                                                                                              3.9g
                                                                                                                Carbohydrates
                     .fontWeight(FontWeight.Bold)
                     .fontSize('20vp')
                                                                                                                            17.8mg
                                                                                                                VitaminC
                     .margin({ left: 16 })
                     .opacity(0.7)
                .height('8%')
                .padding({
                  left: 16
```

如何解决界面调试难-双向预览



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双向定位关联界面和代码, 更快发现界面问题

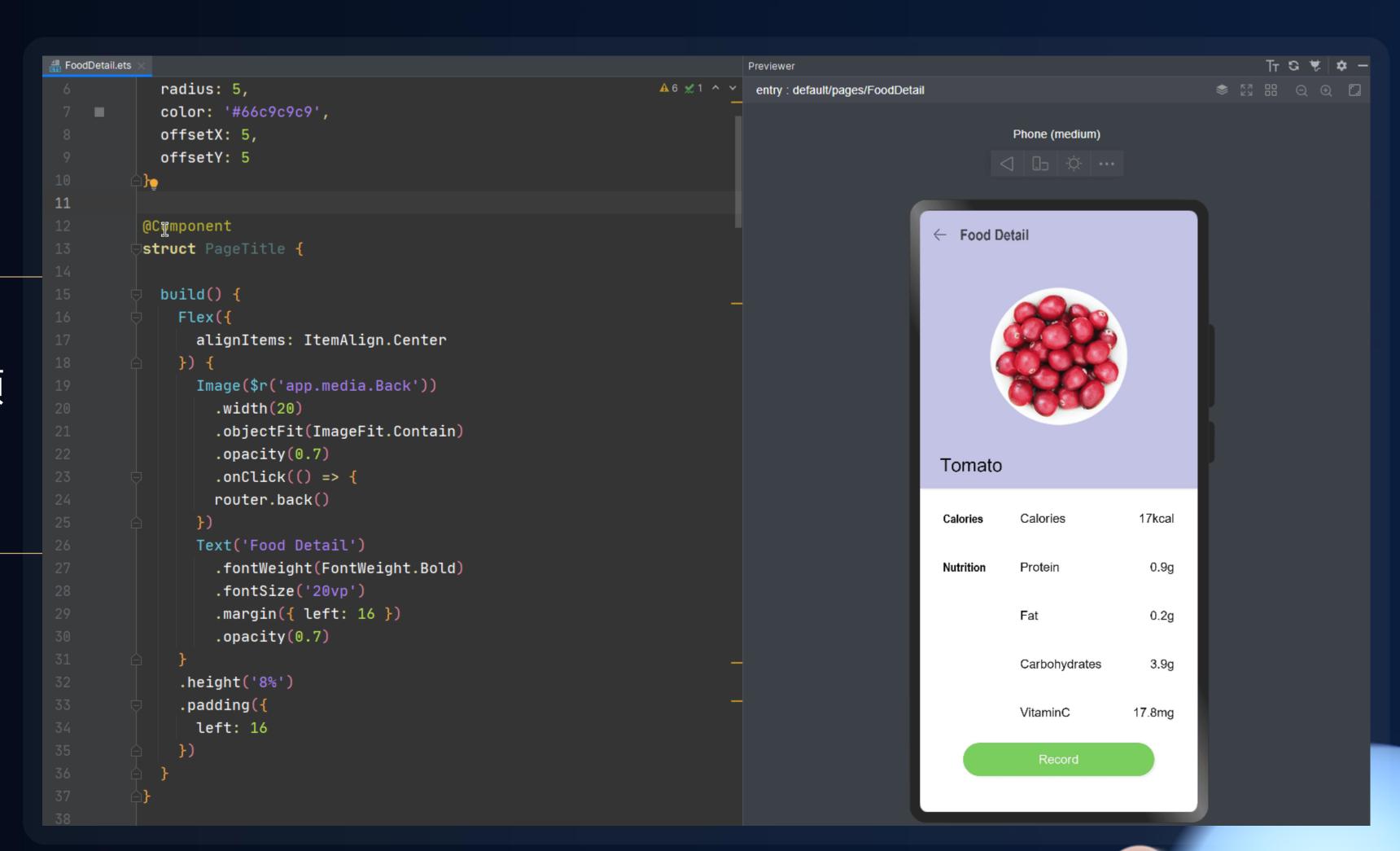
```
# FoodDetail.ets
                                                                                           Previewer: Inspector
           const SHADOW_STYLE = {
                                                                                            entry: default/pages/FoodDetail
                                                                                                                                                  Component Tree
              radius: 5,
              color: '#66c9c9c9',
                                                                                                                 Phone (medium)
              offsetX: 5,
                                                                                                                                                  ▶ 🕾 Flex
              offsetY: 5
11
                                                                                                         ← Food Detail
            @Component
           struct PageTitle {
              build() {
                Flex({
                  alignItems: ItemAlign.Center
                  Image($r('app.media.Back'))
                                                                                                          Tomato
                     .width(20)
                     .objectFit(ImageFit.Contain)
                                                                                                                  Calories
                                                                                                                               17kcal
                     .opacity(0.7)
                                                                                                                                                   Attributes
                                                                                                                               0.9g
                     .onClick(() => {
                     router.back()
                                                                                                                                                         Select a component.
                                                                                                                                0.2g
                   Text('Food Detail')
                                                                                                                  Carbohydrates
                                                                                                                               3.9g
                     .fontWeight(FontWeight.Bold)
                     .fontSize('20vp')
                                                                                                                              17.8mg
                                                                                                                  VitaminC
                     .margin({ left: 16 })
                     .opacity(0.7)
                .height('8%')
                .padding({
                   left: 16
```

如何解决界面调试难-极速预览



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修改代码无需保存即可刷新预览界面,快速调整界面样式

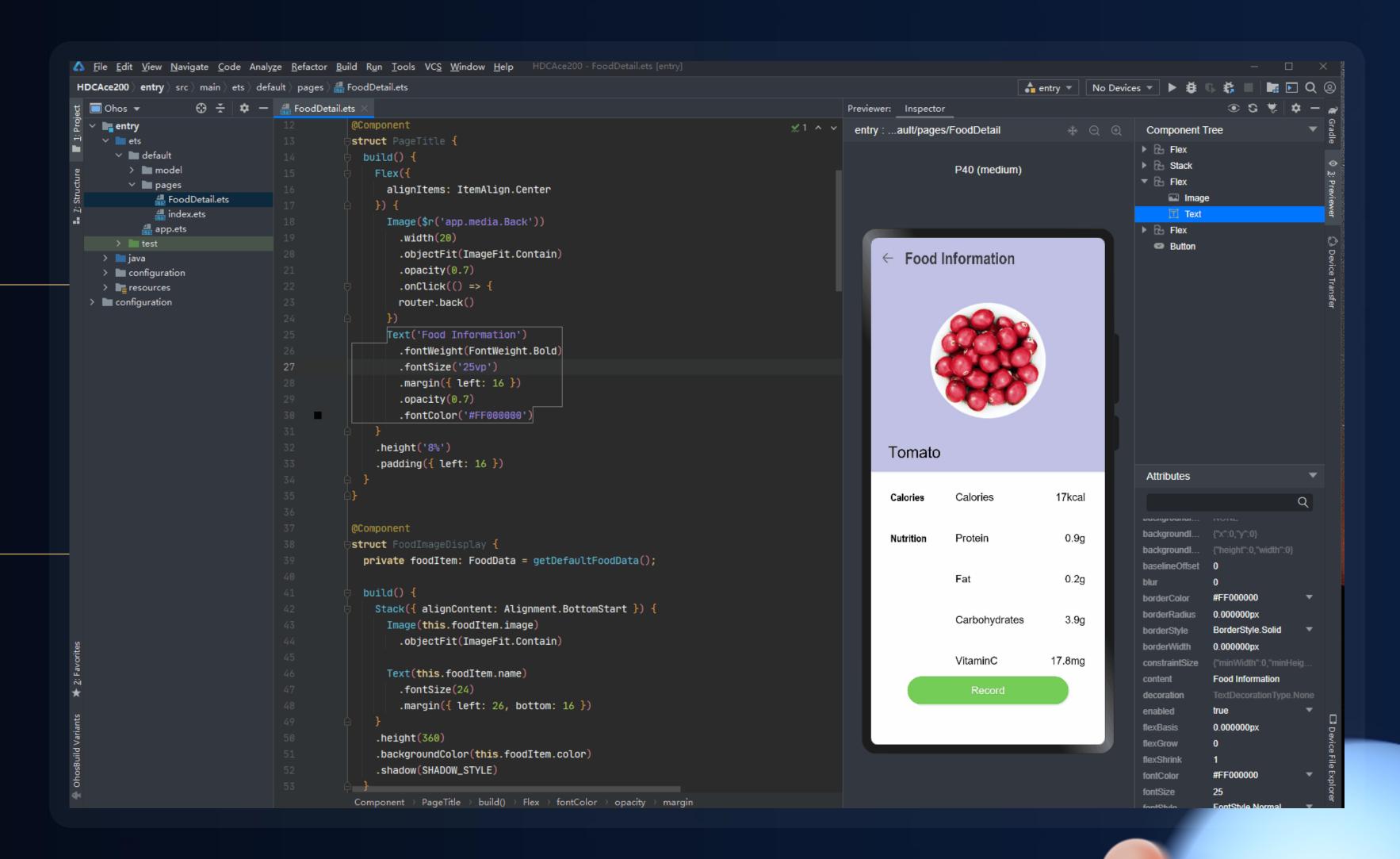


如何解决界面调试难-极速预览

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代码和界面双向可修改, 快速调整界面样式



如何解决尺寸交互多样化-一次开发多端部署



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ENABLE A QUALITY LIFE

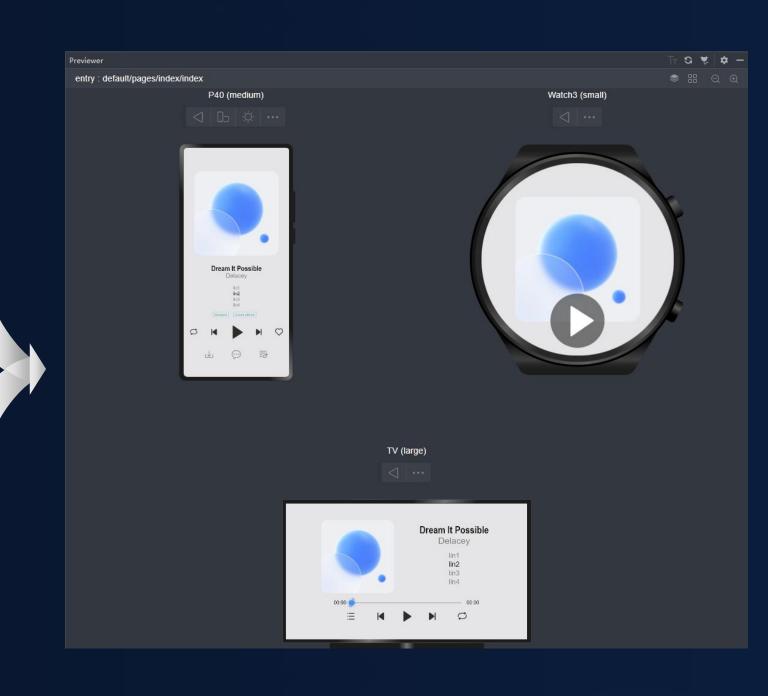
MEDIUM roboto ENABLE A QUALITY LIFE

REGULAR 质享生活

为多设备 主动设计

的UI布局

多端预览



见觉参数

UI界面开发解决方案



尺寸交互多样化

一次开发多端部署

下一步计划



轻量级调试

现状

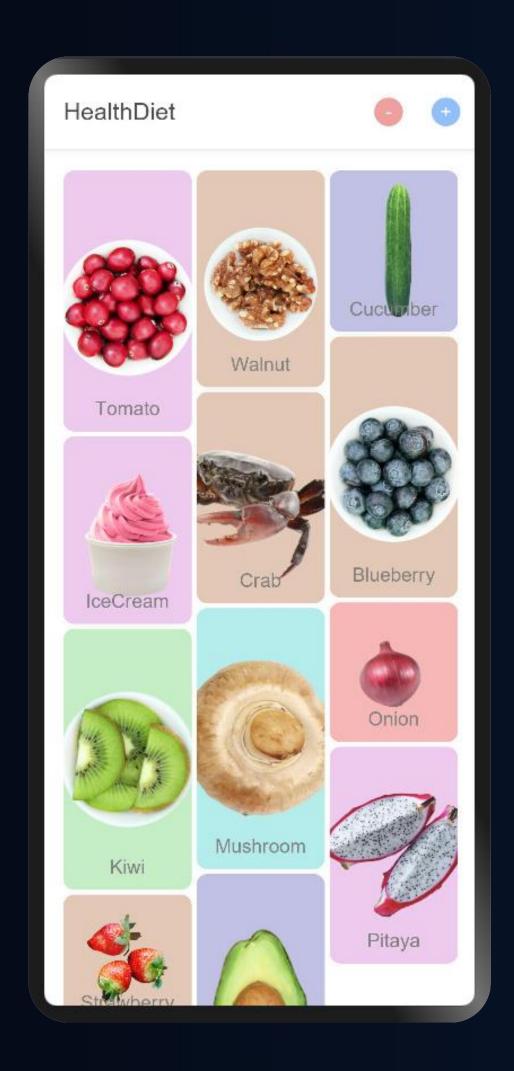
通过双向预览,快速定位界面问题

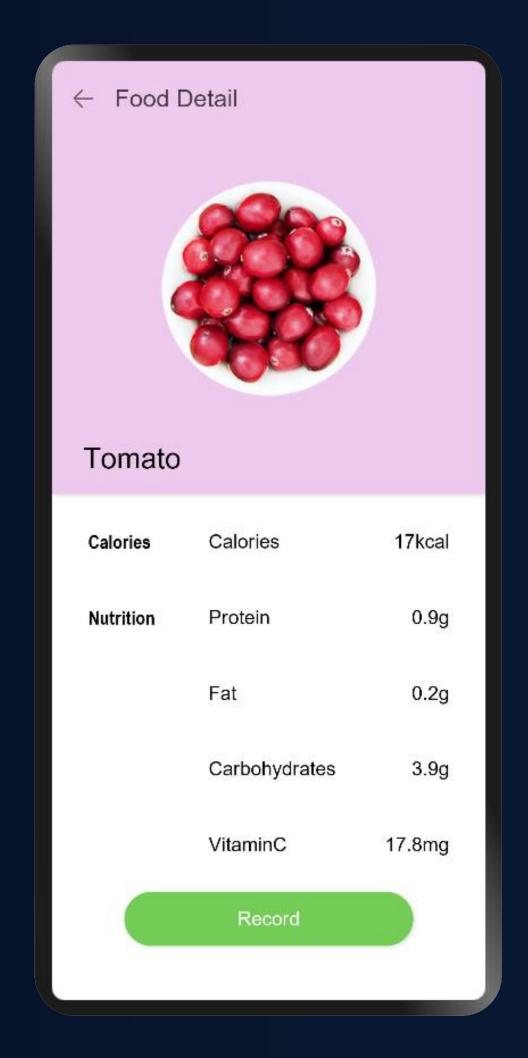
未来

补充更多API能力,无需 真机或重量级模拟器完 成业务逻辑的调试运行

Demo演示







扫码参加1024程序员节

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谢谢



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