|  |
| --- |
| **학번 : 202114226, 이름 : 송재현** |
| **2024년 06주차 과제 체크 리스트** |
| |  |  | | --- | --- | | **과제 3** | **완성** | |
| **과제 3 : 인형 옷 입히기 앱 만들기** |
| **소스코드(MainScreen.kt)** |
| package com.example.homework03  import androidx.compose.foundation.Image import androidx.compose.foundation.layout.Arrangement import androidx.compose.foundation.layout.Box import androidx.compose.foundation.layout.Column import androidx.compose.foundation.layout.Row import androidx.compose.foundation.layout.Spacer import androidx.compose.foundation.layout.width import androidx.compose.foundation.rememberScrollState import androidx.compose.material3.Checkbox import androidx.compose.material3.Text import androidx.compose.runtime.Composable import androidx.compose.runtime.getValue import androidx.compose.runtime.mutableStateListOf import androidx.compose.runtime.mutableStateOf import androidx.compose.runtime.saveable.listSaver import androidx.compose.runtime.saveable.rememberSaveable import androidx.compose.runtime.setValue import androidx.compose.ui.Alignment import androidx.compose.ui.Modifier import androidx.compose.ui.layout.ContentScale import androidx.compose.ui.res.painterResource import androidx.compose.ui.res.stringResource import androidx.compose.ui.unit.dp import androidx.lifecycle.ViewModel import androidx.lifecycle.viewmodel.compose.viewModel   data class ImgData(var imgId: Int) {  companion object {  val imgListSaver = *listSaver*<ImgData, Any>(  save = **{** *listOf*(**it**.imgId) **}**,  restore = **{** ImgData(**it**[0] as Int) **}** )  } }  class ImgViewModel : ViewModel() {  var imglist = *mutableStateListOf*<ImgData>()  private set  init {  imglist.add(ImgData(R.drawable.*arms*))  imglist.add(ImgData(R.drawable.*eyebrows*))  imglist.add(ImgData(R.drawable.*glasses*))  imglist.add(ImgData(R.drawable.*mouth*))  imglist.add(ImgData(R.drawable.*nose*))   imglist.add(ImgData(R.drawable.*ears*))  imglist.add(ImgData(R.drawable.*eyes*))  imglist.add(ImgData(R.drawable.*hat*))  imglist.add(ImgData(R.drawable.*mustache*))  imglist.add(ImgData(R.drawable.*shoes*))  } }  @Composable fun MainScreen(imgViewModel: ImgViewModel = viewModel()) {  Text(text = "202114226 송재현")  val scrollState = rememberScrollState()  var armsChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var eyebrowsChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var glassesChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var mouthChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var noseChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var earsChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var eyesChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var hatChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var mustacheChecked by rememberSaveable **{** *mutableStateOf*(false) **}** var shoesChecked by rememberSaveable **{** *mutableStateOf*(false) **}** Column(  horizontalAlignment = Alignment.CenterHorizontally,  verticalArrangement = Arrangement.Center  ) **{** Box **{** Image(  painter = painterResource(id = R.drawable.*body*),  contentDescription = "몸",  )  if (armsChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[0].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (eyebrowsChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[1].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (glassesChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[2].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (mouthChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[3].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (noseChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[4].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (earsChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[5].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (eyesChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[6].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (hatChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[7].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (mustacheChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[8].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  if (shoesChecked) {  Image(  painter = painterResource(id = imgViewModel.imglist[9].imgId),  contentDescription = "이미지",  contentScale = ContentScale.Fit  )  }  **}** Row **{** Column **{** Row **{** Checkbox(  checked = armsChecked,  onCheckedChange = **{** armsChecked = armsChecked == false  **}**)  Text(  text = stringResource(id = R.string.*arms*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = eyebrowsChecked,  onCheckedChange = **{** eyebrowsChecked = eyebrowsChecked == false  **}**)  Text(  text = stringResource(id = R.string.*eyebrows*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = glassesChecked,  onCheckedChange = **{** glassesChecked = glassesChecked == false  **}**)  Text(  text = stringResource(id = R.string.*glasses*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = mouthChecked,  onCheckedChange = **{** mouthChecked = mouthChecked == false  **}**)  Text(  text = stringResource(id = R.string.*mouth*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = noseChecked,  onCheckedChange = **{** noseChecked = noseChecked == false  **}**)  Text(  text = stringResource(id = R.string.*nose*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}  }** Spacer(modifier = Modifier.*width*(30.*dp*))   Column **{** Row **{** Checkbox(  checked = earsChecked,  onCheckedChange = **{** earsChecked = earsChecked == false  **}**)  Text(  text = stringResource(id = R.string.*ears*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = eyesChecked,  onCheckedChange = **{** eyesChecked = eyesChecked == false  **}**)  Text(  text = stringResource(id = R.string.*eyes*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = hatChecked,  onCheckedChange = **{** hatChecked = hatChecked == false  **}**)  Text(  text = stringResource(id = R.string.*hat*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = mustacheChecked,  onCheckedChange = **{** mustacheChecked = mustacheChecked == false  **}**)  Text(  text = stringResource(id = R.string.*mustache*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}** Row **{** Checkbox(  checked = shoesChecked,  onCheckedChange = **{** shoesChecked = shoesChecked == false  **}**)  Text(  text = stringResource(id = R.string.*shoes*),  modifier = Modifier.*align*(Alignment.CenterVertically)  )  **}  }  }  }** } |
| **소스코드(strings.xml)** |
| <resources>  <string name="app\_name">HomeWork03</string>  <string name="arms">arms</string>  <string name="body">body</string>  <string name="ears">ears</string>  <string name="eyebrows">eyebrows</string>  <string name="eyes">eyes</string>  <string name="glasses">glasses</string>  <string name="hat">hat</string>  <string name="mouth">mouth</string>  <string name="mustache">mustache</string>  <string name="nose">nose</string>  <string name="shoes">shoes</string> </resources> |
| **실행결과** |
| 화면 회전을 해도 유지되는 모습 |