

**Московский государственный технический  
университет им. Н.Э. Баумана**

**Факультет «Радиотехнический»  
Кафедра «Системы обработки информации и управления»**

**Курс «Парадигмы и конструкции языков программирования»**

**Отчет по лабораторной работе №6**

**«Верстка и навигация экранов на языке kotlin»**

**Выполнил:**

**студент группы РТ5-31Б:**

**Паншин М.В.**

**Проверил:**

**преподаватель кафедры ИУ5**

**Гапанюк Ю.Е.**

**Москва, 2024 г.**

## Постановка задачи

Необходимо реализовать несколько экранов и настроить навигацию для перехода между экранами, используя Compose.

## Текст программы

### Файл MainActivity.kt

```
package com.example.a3kotlin

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.padding
import androidx.compose.material3.Scaffold
import androidx.compose.ui.Modifier
import androidx.navigation.compose.rememberNavController

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContent {
            val navController = rememberNavController()
            Scaffold(
                topBar = { TopBar() },
                bottomBar = { BottomNavigationBar(navController) }
            ) { paddingValues ->
                Box(modifier = Modifier.padding(paddingValues)) {
                    Navigation(navController)
                }
            }
        }
    }
}
```

### Файл AdressPickScreen.kt

```
package com.example.a3kotlin

import androidx.compose.animation.AnimatedVisibility
import androidx.compose.animation.expandVertically
import androidx.compose.animation.fadeIn
import androidx.compose.animation.fadeOut
import androidx.compose.animation.shrinkVertically
import androidx.compose.foundation.clickable
import androidx.compose.foundation.interaction.MutableInteractionSource
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.fillMaxSize
```

```

import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.items
import androidx.compose.material.Button
import androidx.compose.material.ButtonDefaults
import androidx.compose.material.Icon
import androidx.compose.material.IconButton
import androidx.compose.material.RadioButton
import androidx.compose.material.RadioButtonDefaults
import androidx.compose.material.Scaffold
import androidx.compose.material.Text
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Delete
import androidx.compose.runtime.Composable
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.res.colorResource
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.lifecycle.viewmodel.compose.viewModel
import androidx.navigation.NavHostController

@Composable
fun AddressPickScreen(navController: NavHostController, addressViewModel:
AddressViewModel = viewModel()) {
    val addresses = AddressViewModel.getAddresses()
    val selectedAddress = remember { mutableStateOf<String?>(null) }
    val buttonColor = colorResource(id =
R.color.lil_button_or_add_pay_address)

    Scaffold(
        topBar = {
            Text(
                modifier = Modifier.fillMaxWidth(),
                text = "Адрес доставки",
                style = TextStyle(fontSize = 20.sp, fontWeight =
FontWeight.Bold),
                textAlign = TextAlign.Center
            )
        },
        bottomBar = {
            Column(
                modifier = Modifier.fillMaxWidth().padding(10.dp)
            ) {
                Button(
                    onClick = { addressViewModel.addAddress("Адрес
${addresses.size + 1}") },
                    modifier = Modifier.fillMaxWidth(),
                    colors = ButtonDefaults.buttonColors(buttonColor)
                ) {
                    Text(text = "Добавить адрес", color = Color.Black)
                }

                Spacer(modifier = Modifier.height(10.dp))
            }
        }
    )
}

```

```

        Button(
            onClick = {
navController.navigate(NavigationItemsSec.Payment.route) {
                launchSingleTop = true
                restoreState = true
            }
        },
        modifier = Modifier.fillMaxWidth(),
        colors = ButtonDefaults.buttonColors(buttonColor)
    ) {
        Text(text = "Перейти к оплате", color = Color.Black)
    }
}
){ innerValues ->
    if(addresses.isEmpty()){
        Box(modifier = Modifier.fillMaxSize(),
            contentAlignment = Alignment.Center ){
            Text(text = "Адреса доставки пока отсутствуют, добавьте новый
адрес, чтобы продолжить заказ",
                style = TextStyle(fontSize = 20.sp, fontWeight =
FontWeight.Bold),
                color = Color.Gray,
                textAlign = TextAlign.Center)
        }
    }
    LazyColumn(
        modifier = Modifier
            .fillMaxSize()
            .padding(innerValues)
    ) {
        items(addresses, key = {it}) {address ->
            AnimatedVisibility(
                visible = true,
                enter = fadeIn() + expandVertically(),
                exit = fadeOut() + shrinkVertically()
            ) {
                AddressItem(
                    address = address,
                    isSelected = address == selectedAddress.value,
                    onClick = {selectedAddress.value = address},
                    onDelete = {addressViewModel.deleteAdress(address)}
                )
            }
        }
    }
}

@Composable
fun AddressItem(address:String,
    isSelected: Boolean,
    onClick: ()-> Unit,
    onDelete:() -> Unit){
    val interactionSource = remember { MutableInteractionSource() }

    Row (
        modifier = Modifier
            .fillMaxWidth()
            .padding(8.dp)
            .clickable(onClick = onClick,
                interactionSource = interactionSource, indication = null),

```

```

        verticalAlignment = Alignment.CenterVertically
    ) { RadioButton(colors = RadioButtonDefaults.colors(
        selectedColor = colorResource(id = R.color.final_buttons)
    ),
        selected = isSelected,
        onClick = onClick
    )
    Column (
        modifier = Modifier.weight(1f)
            .padding(start = 6.dp)
    ){
        Text(text = address,
            style = TextStyle(fontSize = 20.sp, fontWeight =
FontWeight.Bold) ,
            color = Color.Black)
        Text(text = "Дополнительная информация об адресе
${AdressViewModel.getAddresses().indexOf(address) + 1}",
            style = TextStyle(fontSize = 14.sp, color = Color.Gray))
    }
    IconButton(onClick = onDelete) {
        Icon(imageVector = Icons.Default.Delete,
            contentDescription = "Удалить")
    }
}
}

```

## Файл AdressViewModel.kt

```

package com.example.a3kotlin

import androidx.compose.runtime.mutableStateOf
import androidx.lifecycle.ViewModel

object AdressViewModel: ViewModel() {
    private var _adressList = mutableStateOf<List<String>>(listOf())

    fun addAddress(address: String){
        _adressList.value += address
    }

    fun deleteAddress(address:String){
        _adressList.value = _adressList.value.filter { it != address }
    }

    fun isAdressExist(address: String): Boolean{
        return _adressList.value.contains(address)
    }

    fun getAddresses(): List<String> = _adressList.value
}

```

## Файл BottomNavigationBar.kt

```

package com.example.a3kotlin

import androidx.compose.foundation.background
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.size
import androidx.compose.foundation.layout.widthIn

```

[illegible]

```

        shape = CircleShape,
        color = accentColor,
        tonalElevation = 4.dp
    ) {
        Text(
            text = if (favItemCount >
99) "99+" else favItemCount.toString(),
            color = backgroundColor,
            style =
MaterialTheme.typography.labelSmall,
            modifier =
Modifier.padding(
                horizontal = 4.dp,
                vertical = 2.dp
            ),
            textAlign =
TextAlign.Center,
            maxLines = 1
        )
    }
}
) {
    Icon(
        painter = painterResource(id =
item.icon),
        contentDescription = item.title,
        modifier = Modifier.size(24.dp),
        tint = if (currentRoute ==
item.route) accentColor else itemColor
    )
}
} else {
    Icon(
        painter = painterResource(id =
item.icon),
        contentDescription = item.title,
        modifier = Modifier.size(24.dp),
        tint = if (currentRoute ==
item.route) accentColor else itemColor
    )
}
}

NavigationItems.ShoppingCard.route -> {
    if (cartItemCount != 0) {
        BadgedBox(
            modifier =
Modifier.wrapContentSize(),
            badge = {
                Surface(
                    modifier = Modifier
                        .padding(top = 4.dp)
                        .widthIn(min = 16.dp),
                    shape = CircleShape,
                    color = accentColor,
                    tonalElevation = 4.dp
                ) {
                    Text(
                        text = if (cartItemCount
> 99) "99+" else cartItemCount.toString(),
                        color = backgroundColor,
                        style =
MaterialTheme.typography.labelSmall,
                        modifier =

```

```

Modifier.padding(
    horizontal = 4.dp,
    vertical = 2.dp
),
textAlign =
TextAlign.Center,
maxLines = 1
)
}
) {
    Icon(
        painter = painterResource(id =
item.icon),
        contentDescription = item.title,
        modifier = Modifier.size(24.dp),
        tint = if (currentRoute ==
item.route) accentColor else itemColor
    )
} else {
    Icon(
        painter = painterResource(id =
item.icon),
        contentDescription = item.title,
        modifier = Modifier.size(24.dp),
        tint = if (currentRoute ==
item.route) accentColor else itemColor
    )
}
} else -> {
    Icon(
        painter = painterResource(id =
item.icon),
        contentDescription = item.title,
        modifier = Modifier.size(24.dp),
        tint = if (currentRoute == item.route)
accentColor else itemColor
    )
}
},
label = {
    Text(
        text = item.title,
        style = MaterialTheme.typography.labelSmall,
        maxLines = 1,
        color = itemColor
    )
},
selectedContentColor = accentColor,
unselectedContentColor = itemColor,
alwaysShowLabel = true,
selected = currentRoute == item.route,
onClick = {
    navController.navigate(item.route) {
        launchSingleTop = true
        restoreState = true
    }
}
)
}

```



```
}  
}
```

## Файл FavoritesScreen.kt

```
package com.example.a3kotlin  
  
import android.content.res.Configuration  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Box  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.PaddingValues  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.fillMaxWidth  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.layout.wrapContentSize  
import androidx.compose.foundation.lazy.grid.GridCells  
import androidx.compose.foundation.lazy.grid.LazyVerticalGrid  
import androidx.compose.foundation.lazy.grid.items  
import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.platform.LocalConfiguration  
import androidx.compose.ui.res.colorResource  
import androidx.compose.ui.text.TextStyle  
import androidx.compose.ui.text.font.FontWeight  
import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import androidx.navigation.NavHostController  
  
@Composable  
fun FavoritesScreen(navController: NavHostController) {  
  
    val products = FavoritesViewModel.getProducts()  
    val configuration = LocalConfiguration.current  
    val columns = if (configuration.orientation ==  
Configuration.ORIENTATION_PORTRAIT) 2 else 3  
    val buttonColor = colorResource(id =  
R.color.lil_button_or_add_pay_address)  
  
    Column(modifier = Modifier.fillMaxSize()) {  
        Box(  
            modifier = Modifier.fillMaxWidth()  
                .height(30.dp),  
            contentAlignment = Alignment.Center  
        ) {  
            Text(  
                text = "Избранное",  
                style = TextStyle(fontSize = 20.sp, fontWeight =  
FontWeight.Bold)  
            )  
        }  
        if (products.isEmpty()) {
```

```

Box(
    modifier = Modifier.fillMaxSize(),
    contentAlignment = Alignment.Center
) {
    Column (verticalArrangement = Arrangement.Center,
        horizontalAlignment = Alignment.CenterHorizontally) {
        Text(
            text = "У вас пока нет избранных товаров",
            style = TextStyle(fontSize = 25.sp, color =
Color.Gray),
            textAlign = TextAlign.Center
        )
        Spacer(Modifier.height(40.dp))
        Button(
            onClick = {
navController.navigate(NavigationItems.Home.route)},
            colors = ButtonDefaults.buttonColors(
                buttonColor
            )
        )

        {
            Text(
                text = "Вернуться на главную",
                color = Color.Black
            )
        }
    }
}

else {

Box(
    modifier = Modifier.fillMaxWidth()
    ,
    contentAlignment = Alignment.CenterEnd
)
{
    Button(
        onClick = {FavoritesViewModel.clear()},
        modifier = Modifier.padding(10.dp)
            .wrapContentSize(),
        colors = ButtonDefaults.buttonColors(
            buttonColor
        )
    ) {
        Text(
            text = "Очистить избранное",
            style = TextStyle(fontSize = 15.sp),
            color = colorResource(id = R.color.black)
        )
    }
}

LazyVerticalGrid(
    columns = GridCells.Fixed(columns), // Устанавливаем
количество столбцов в зависимости от ориентации
    contentPadding = PaddingValues(16.dp),
    modifier = Modifier.fillMaxSize()
)

```

```

        ) {
            items(products) { product ->
                ProductCard(product = product, navController =
navController)
            }
        }
    }
}
}

```

## Файл FavoritesViewModel.kt

```

package com.example.a3kotlin

import androidx.compose.runtime.mutableStateOf
import androidx.lifecycle.ViewModel

object FavoritesViewModel: ViewModel() {
    private var _favItems = mutableStateOf<List<Product>>(listOf())

    fun addProduct(product: Product) {
        _favItems.value = _favItems.value + product
    }

    fun removeProduct(product: Product) {
        _favItems.value = _favItems.value.filter { it.id != product.id }
    }

    fun getProducts(): List<Product> = _favItems.value

    fun getTotalItems(): Int = _favItems.value.size

    fun clear() {
        _favItems.value = listOf()
    }
}

```

## Файл HomeScreen.kt

```

package com.example.a3kotlin

import androidx.compose.runtime.mutableStateOf
import androidx.lifecycle.ViewModel

object FavoritesViewModel: ViewModel() {
    private var _favItems = mutableStateOf<List<Product>>(listOf())

    fun addProduct(product: Product) {
        _favItems.value = _favItems.value + product
    }

    fun removeProduct(product: Product) {
        _favItems.value = _favItems.value.filter { it.id != product.id }
    }

    fun getProducts(): List<Product> = _favItems.value

    fun getTotalItems(): Int = _favItems.value.size

    fun clear() {
        _favItems.value = listOf()
    }
}

```

## Файл HomeViewModel.kt

```
package com.example.a3kotlin

import androidx.lifecycle.SavedStateHandle
import androidx.lifecycle.ViewModel
import androidx.lifecycle.viewModelScope
import kotlinx.coroutines.delay
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.StateFlow
import kotlinx.coroutines.launch

class HomeViewModel(private val savedStateHandle: SavedStateHandle) :
    ViewModel() {

    private val _products = MutableStateFlow<List<Product>>(emptyList())
    val products: StateFlow<List<Product>> = _products

    private val _isLoading = MutableStateFlow(false)
    val isLoading: StateFlow<Boolean> = _isLoading

    private val isLoadingKey = "is_loaded"
    private var isLoading = savedStateHandle.get<Boolean>(isLoadingKey) ?:
false

    private val mockProducts = MockData.getMockedProducts()

    fun loadProducts() {
        // Проверяем, нужно ли загружать данные
        if (!isLoading && !_isLoading.value) {
            _isLoading.value = true
            viewModelScope.launch {
                delay(2000) // Симулируем задержку
                _products.value = mockProducts
                isLoading = true
                savedStateHandle[isLoadingKey] = isLoading
                _isLoading.value = false
            }
        }
    }
}
```

## Файл MockData.kt

```
package com.example.a3kotlin

object MockData {
    val productList = listOf(
        Product(
            id = "1",
            name = "Apple Iphone 15",
            price = 279900,
            description = "Пока нет описания",
            imageRes = R.drawable.iphone_15,
            features = listOf("Чёрный", "512ГБ", "eSim")
        ),
        Product(
            id = "2",
            name = "Apple Watch 15",
            price = 279900,
            description = "Пока нет описания",
            imageRes = R.drawable.apple_watch,
```

```

        features = listOf("Чёрный", "12", "Есть")
    ), Product(
        id = "3",
        name = "MacBook Pro",
        price = 1279900,
        description = "Пока нет описания",
        imageRes = R.drawable.macbook_pro,
        features = listOf("Чёрный", "1024ГБ")
    ),
    Product(
        id = "4",
        name = "Apple Iphone 15",
        price = 279900,
        description = "Пока нет описания",
        imageRes = R.drawable.iphone_15,
        features = listOf("Чёрный", "512ГБ", "eSim")
    ),
)
fun getMockedProducts(): List<Product> {
    return productList
}
}

```

## Файл Navigation.kt

```

package com.example.a3kotlin

import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.navigation.NavHostController
import androidx.navigation.NavType
import androidx.navigation.compose.NavHost
import androidx.navigation.compose.composable
import androidx.navigation.navArgument

@Composable
fun Navigation(navController: NavHostController) {

    NavHost(navController, startDestination = NavigationItems.Home.route) {

        composable(NavigationItems.Home.route) {
            HomeScreen(navController)
        }

        composable(NavigationItems.Catalog.route) {
            CatalogScreen(navController)
        }

        composable(NavigationItems.ShoppingCard.route) {
            ShoppingCardScreen(navController)
        }

        composable(NavigationItems.Favorites.route) {
            FavoritesScreen(navController)
        }

        composable(
            "productDetail/{productId}",
            arguments = listOf(navArgument("productId") { type =
NavType.StringType })
        ) { backStackEntry ->
            val productId = backStackEntry.arguments?.getString("productId")

```

```

?: ""
        val product = MockData.productList.firstOrNull { it.id ==
productId }

        if (product != null) {
            ProductDetailScreen(
                product = product,
                navController = navController
            )
        } else {
            Text("Product not found")
        }
    }
    composable(NavigationItemsSec.Address.route) {
        AddressPickScreen(navController)
    }
    composable(NavigationItemsSec.Payment.route) {
        PaymentScreen(navController)
    }
    composable(NavigationItemsSec.Success.route) {
        Success(navController)
    }
}
}

```

## Файл NavigationItems.kt

```

package com.example.a3kotlin

sealed class NavigationItems(var route: String, var icon: Int, var title:
String)
{
    data object Home : NavigationItems("home", R.drawable.home, "Главная")
    data object Catalog : NavigationItems("catalog", R.drawable.menu,
"Каталог")
    data object ShoppingCart : NavigationItems("shopping_cart",
R.drawable.shopping_cart_outlined, "Корзина")
    data object Favorites : NavigationItems("favorites",
R.drawable.favorite_outlined, "Избранное")
}

```

## Файл NavigationItemsSec.kt

```

package com.example.a3kotlin

sealed class NavigationItemsSec(var route: String) {
    data object Address : NavigationItemsSec("address")
    data object Payment : NavigationItemsSec("payment")
    data object Success : NavigationItemsSec("success")
}

```

## Файл PaymentScreen.kt

```

package com.example.a3kotlin

```

```

import androidx.compose.foundation.clickable
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.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.width
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.lazy.itemsIndexed
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Delete
import androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.DropdownMenu
import androidx.compose.material3.DropdownMenuItem
import androidx.compose.material3.Icon
import androidx.compose.material3.IconButton
import androidx.compose.material3.RadioButton
import androidx.compose.material3.RadioButtonDefaults
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.runtime.MutableState
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.res.colorResource
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavHostController
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.style.TextAlign
import androidx.navigation.NavController
import androidx.compose.ui.graphics.Color
import androidx.lifecycle.viewmodel.compose.viewModel

@Composable
fun PaymentScreen(navController: NavHostController, favoritesViewModel:
FavoritesViewModel = viewModel()) {

    val paymentMethods = PaymentViewModel.getMethods()
    val selectedOption = remember { mutableStateOf<String?>(null) }
    val isDropdownVisible = remember { mutableStateOf(false) }

    val isAddingCard = remember { mutableStateOf(false) }
    Column(
        modifier = Modifier
            .fillMaxSize()
            .padding(16.dp)
    ) {
        Text(
            text = "Выберите способ оплаты",
            style = TextStyle(fontSize = 20.sp, fontWeight =
FontWeight.Bold),
            modifier = Modifier.padding(bottom = 16.dp)
        )

        PaymentOption(

```

```

        label = "Оплатить картой при получении",
        isSelected = selectedOption.value == "card_on_delivery",
        onSelect = { selectedOption.value = "card_on_delivery" }
    )
    PaymentOption(
        label = "Оплатить наличными курьеру",
        isSelected = selectedOption.value == "cash",
        onSelect = { selectedOption.value = "cash" }
    )
    PaymentOption(
        label = "Оплатить картой онлайн",
        isSelected = selectedOption.value == "online",
        onSelect = {
            selectedOption.value = "online"
            isDropdownVisible.value = true
        }
    )

    if (selectedOption.value == "online" && isDropdownVisible.value) {
        Spacer(modifier = Modifier.height(16.dp))

        Column (
            modifier = Modifier
                .fillMaxWidth()
                .padding(top = 8.dp)
        ) {
            Text(
                "Сохраненные карты:",
                style = TextStyle(fontSize = 20.sp, fontWeight =
FontWeight.Bold)
            )
            Spacer(Modifier.height(10.dp))

            LazyColumn(
                modifier = Modifier.fillMaxWidth()
            ) {
                if (paymentMethods.isNotEmpty()) {
                    itemsIndexed(paymentMethods) { index, card ->
                        Row(
                            modifier =
Modifier.fillMaxWidth().padding(8.dp),
                            verticalAlignment =
Alignment.CenterVertically
                        ) {
                            Text(text = card, modifier =
Modifier.weight(1f))

                            IconButton(
                                onClick = {
                                    PaymentViewModel.removeMethod(card)
                                }
                            ) {
                                Icon(
                                    imageVector =
Icons.Default.Delete,
                                    contentDescription = "Удалить
карту"
                                )
                            }
                        }
                    }
                }
            }
        }
    }
}
else {

```



```

                item {
                    Box (contentAlignment =
Alignment.Center){
                        Text(text = "Сохраненные карты
отсутствуют, добавьте новый способ оплаты",
                            textAlign = TextAlign.Center,
                            style = TextStyle(fontSize =
15.sp, fontWeight = FontWeight.Bold),
                            color = Color.Gray)
                    }
                    Spacer(modifier = Modifier.height(16.dp))
                }
            }
            item {
                Button(
                    onClick = {
                        isAddingCard.value = true
                        PaymentViewModel.addMethod(
"***${kotlin.random.Random.nextInt(1000, 10000)}"
                    ),
                    modifier = Modifier.fillMaxWidth(),
                    colors =
ButtonDefaults.buttonColors(colorResource(id = R.color.add_button))
                ) {
                    Text(text = "Добавить новую карту")
                }
            }
            item {
                Button(
                    onClick = {
                        CartViewModel.clear()
navController.navigate(NavigationItemsSec.Success.route) {
                            launchSingleTop = true
                            restoreState = true
                        }
                    },
                    modifier = Modifier.fillMaxWidth(),
                    colors =
ButtonDefaults.buttonColors(colorResource(id = R.color.add_button))
                ) {
                    Text(text = "Оплатить!")
                }
            }
        }
    }
}

@Composable
fun PaymentOption(label: String, isSelected: Boolean, onSelect: () -> Unit) {
    Row(
        modifier = Modifier
            .fillMaxWidth()
            .clickable { onSelect() }
            .padding(vertical = 8.dp),
    )
}

```

```

        verticalAlignment = Alignment.CenterVertically
    ) {
        RadioButton(
            selected = isSelected,
            onClick = { onSelect() },
            colors = RadioButtonDefaults.colors(
                selectedColor = colorResource(id = R.color.final_buttons)
            )
        )
        Spacer(modifier = Modifier.width(8.dp))
        Text(text = label, style = TextStyle(fontSize = 16.sp))
    }
}

```

## Файл PaymentViewModel.kt

```

package com.example.a3kotlin

import androidx.compose.runtime.mutableStateOf
import androidx.lifecycle.ViewModel

object PaymentViewModel: ViewModel() {
    private var _paymentMethods = mutableStateOf<List<String>>(listOf())

    fun addMethod (name: String){
        _paymentMethods.value = _paymentMethods.value + name
    }

    fun removeMethod (name: String){
        _paymentMethods.value = _paymentMethods.value.filter {it != name}
    }

    fun getMethods() : List<String> = _paymentMethods.value
}

```

## Файл Product.kt

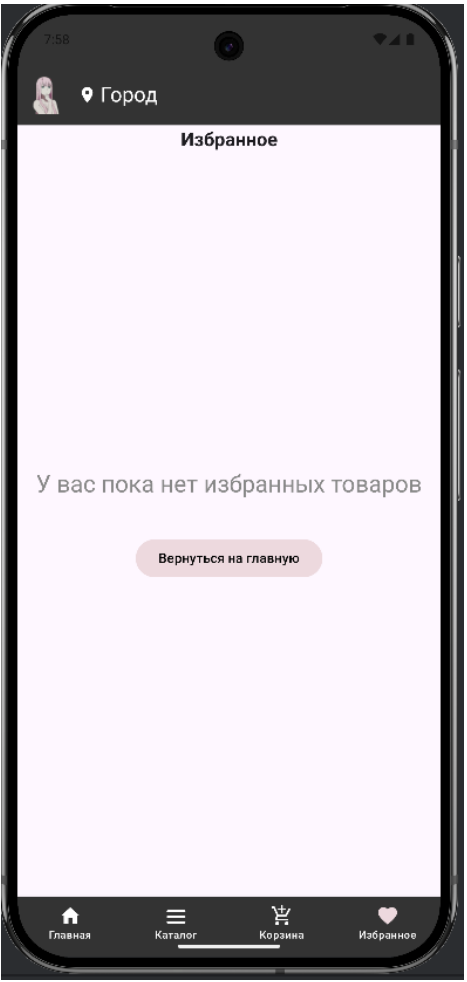
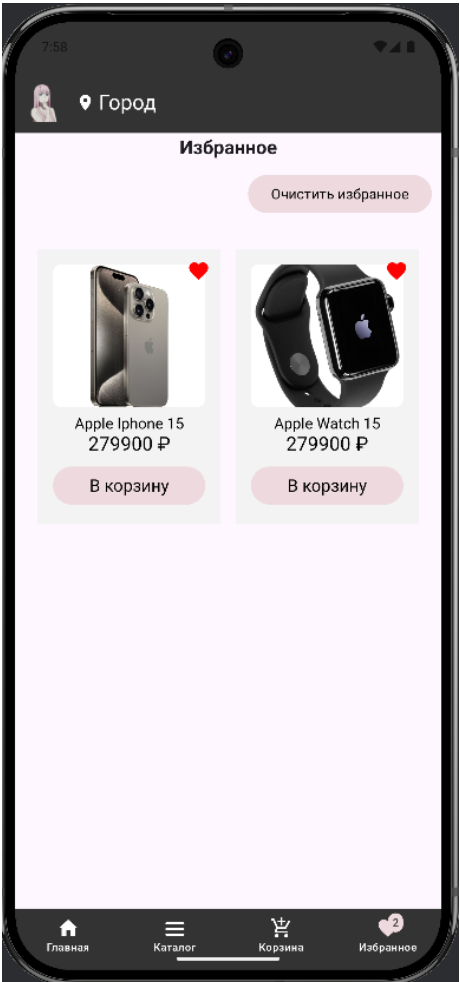
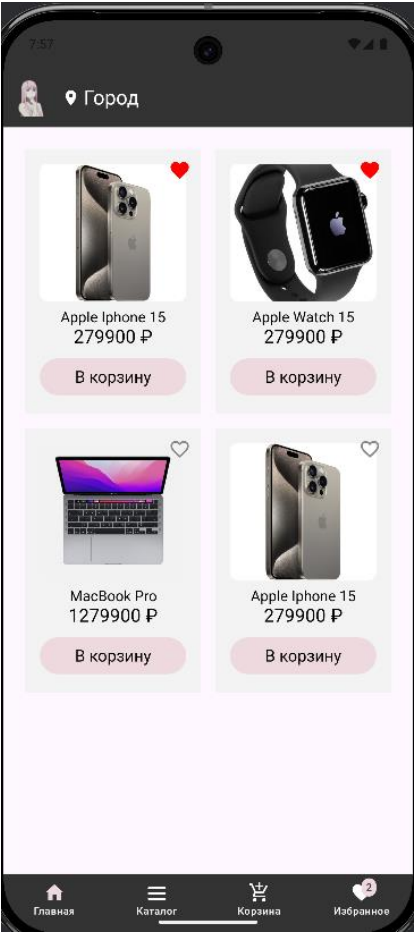
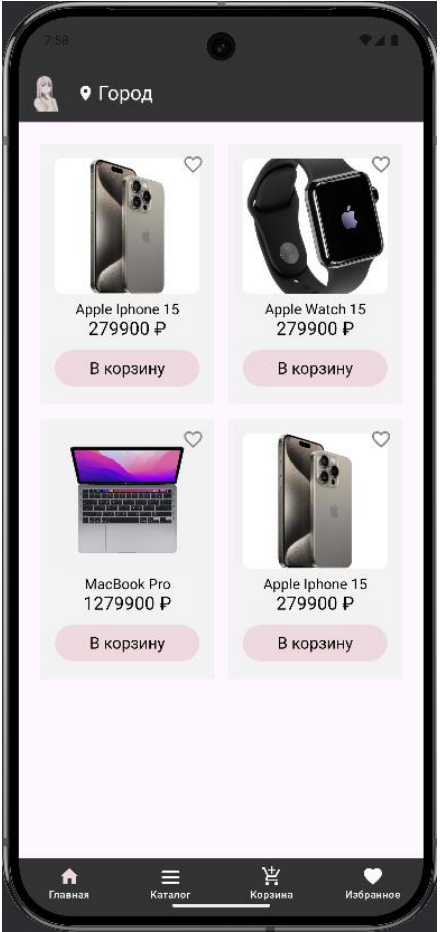
```

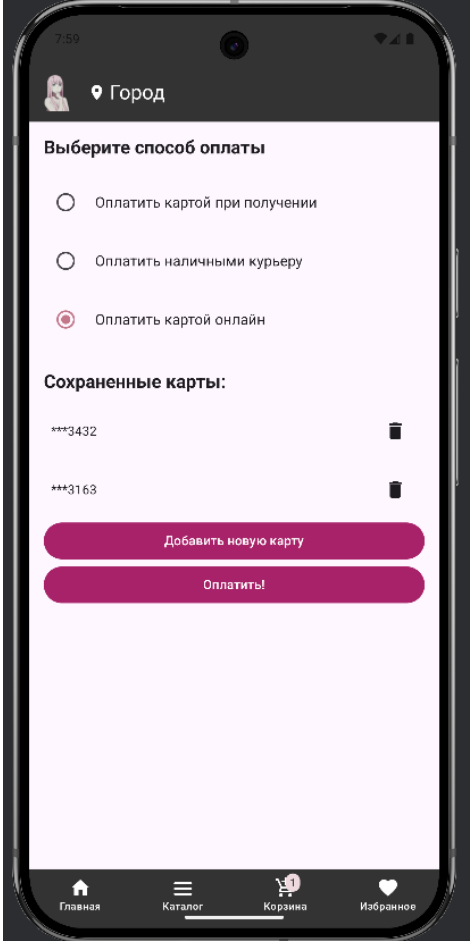
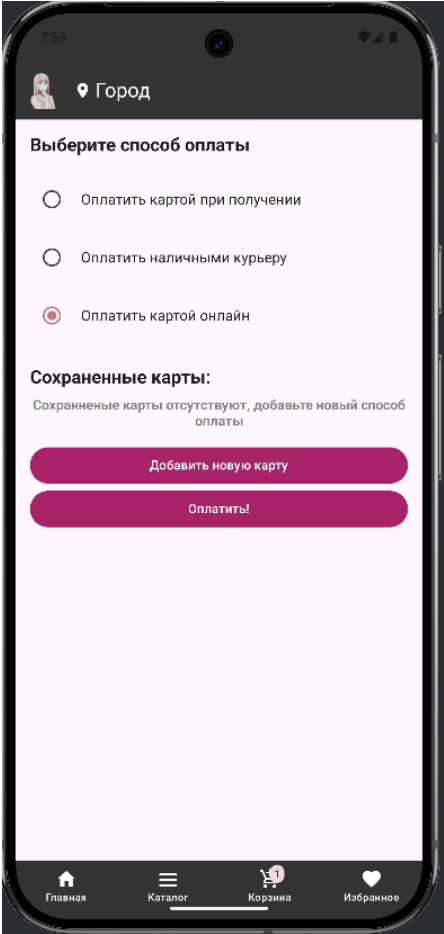
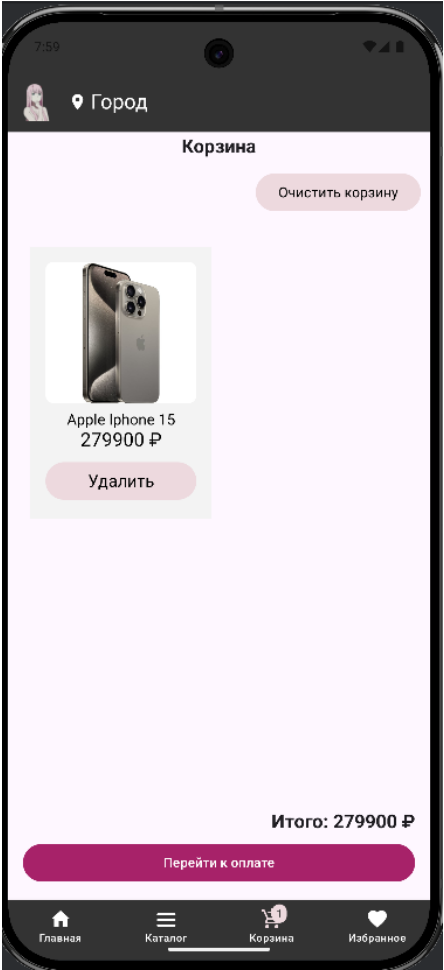
package com.example.a3kotlin

data class Product(
    val id: String,
    val name: String,
    val price: Int,
    val description: String,
    val imageRes: Int,
    val features: List<String>) {
}

```

## Результаты работы программы





8:00



📍 Город

**Спасибо за покупку!**

Мы надеемся, что вам понравится!

[Вернуться на главную](#)



Главная



Каталог



Корзина



Избранное