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//
// MemoCardsViewModel.swift
// MemoCards
//
// Created by Дмитрий Карпов on 08/03/2019.
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//

import Foundation

protocol MemoCardsProtocol {
    var selectedImage: MemoCard { get set }
    func selectImage() -> String
    func getParameters() -> ParameterList
    func changeDirection()
}

class MemoCardsViewModel: MemoCardsProtocol {

    private var privateSelectedImage: MemoCard =
        MemoCard(keyNumber: "00", keyWord: "HoMepok",
            keyLetters: "HM", fileName: "00 HM HoMepok")

    //Структура основной игры: направление, первый и последний номер
    //карточки.
    let mainGame: ParameterList!
    var currentGame: ParameterList!

    var selectedImage: MemoCard {
        get {
            return privateSelectedImage
        }
        set {
            if !newValue.keyNumber.isEmpty {
                privateSelectedImage = newValue
            }
        }
    }

    let memoCards: [MemoCard] = [
        MemoCard(keyNumber: "00", keyWord: "HoMepok",
            keyLetters: "HM", fileName: "00 HM HoMepok"),
        MemoCard(keyNumber: "01", keyWord: "ёЖ", keyLetters:
            "IЖ", fileName: "01 IЖ eЖ"),
    ]

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MemoCard(keyNumber: "02", keyWord: "яД", keyLetters:
  "ДТ", fileName: "02 ДТ яД"),
MemoCard(keyNumber: "03", keyWord: "уХо",
  keyLetters: "КХ", fileName: "03 КХ уХо"),
MemoCard(keyNumber: "04", keyWord: "Чай",
  keyLetters: "ЧШ", fileName: "04 ЧШ Чай"),
MemoCard(keyNumber: "05", keyWord: "оБои",
  keyLetters: "БП", fileName: "05 БП оБои"),
MemoCard(keyNumber: "06", keyWord: "юЛф",
  keyLetters: "ШЛ", fileName: "06 ШЛ юЛа"),
MemoCard(keyNumber: "07", keyWord: "оСа",
  keyLetters: "СЗ", fileName: "07 ЗС оСа"),
MemoCard(keyNumber: "08", keyWord: "иВа",
  keyLetters: "ВФ", fileName: "08 ВФ иВа"),
MemoCard(keyNumber: "09", keyWord: "яйЦо",
  keyLetters: "РЦ", fileName: "09 РЦ яйЦо"),
MemoCard(keyNumber: "10", keyWord: "оГоНь",
  keyLetters: "ГЖ НМ", fileName: "10 НМ ГЖ оГоНь"),
MemoCard(keyNumber: "11", keyWord: "ГаГарин",
  keyLetters: "ГЖ ГЖ", fileName: "11 ГЖ ГЖ ГаГарин"),
MemoCard(keyNumber: "12", keyWord: "ГиТара",
  keyLetters: "ГЖ ДТ", fileName: "12 ГЖ ДТ ГиТара"),
MemoCard(keyNumber: "13", keyWord: "ГайКа",
  keyLetters: "ГЖ КХ", fileName: "13 ГЖ КХ ГайКа"),
MemoCard(keyNumber: "14", keyWord: "ЖуЧок",
  keyLetters: "ГЖ ЧЩ", fileName: "14 ГЖ ЧЩ ЖуЧок"),
MemoCard(keyNumber: "15", keyWord: "ГуБы",
  keyLetters: "ГЖ БП", fileName: "15 ГЖ БП ГуБы"),
MemoCard(keyNumber: "16", keyWord: "ГуаШь",
  keyLetters: "ГЖ ШЛ", fileName: "16 ГЖ ШЛ ГуаШь"),
MemoCard(keyNumber: "17", keyWord: "ГуСь",
  keyLetters: "ГЖ СЗ", fileName: "17 ГЖ СЗ ГуСь"),
MemoCard(keyNumber: "18", keyWord: "ГВоздь",
  keyLetters: "ГЖ ВФ", fileName: "18 ГЖ ВФ ГВоздь"),
MemoCard(keyNumber: "19", keyWord: "ГиРя",
  keyLetters: "ГЖ РЦ", fileName: "19 ГЖ РЦ ГиРя"),
MemoCard(keyNumber: "20", keyWord: "ДоМ",
  keyLetters: "ДТ НМ", fileName: "20 ДТ НМ ДоМ"),
MemoCard(keyNumber: "21", keyWord: "уТюГ",
  keyLetters: "ДТ ГЖ", fileName: "21 ДТ ГЖ уТюГ"),
MemoCard(keyNumber: "22", keyWord: "Диод",
  keyLetters: "ДТ ДТ", fileName: "22 ДТ ДТ Диод"),
MemoCard(keyNumber: "23", keyWord: "ДуХи",
  keyLetters: "ДТ КХ", fileName: "23 ДТ КХ ДуХи"),
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MemoCard(keyNumber: "24", keyWord: "ДиЧь",
keyLetters: "ДТ ЧШ", fileName: "24 ДТ ЧШ ДиЧь"),
MemoCard(keyNumber: "25", keyWord: "ТоПор",
keyLetters: "ДТ БП", fileName: "25 ДТ БП ТоПор"),
MemoCard(keyNumber: "26", keyWord: "ДуШ",
keyLetters: "ДТ ШЛ", fileName: "26 ДТ ШЛ ДуШ"),
MemoCard(keyNumber: "27", keyWord: "ТуЗ",
keyLetters: "ДТ СЗ", fileName: "27 ДТ СЗ ТуЗ"),
MemoCard(keyNumber: "28", keyWord: "удаВ",
keyLetters: "ДТ ВФ", fileName: "28 ДТ ВФ удаВ"),
MemoCard(keyNumber: "29", keyWord: "ТеРка",
keyLetters: "ДТ РЦ", fileName: "29 ДТ РЦ ТеРка"),
MemoCard(keyNumber: "30", keyWord: "иКоНа",
keyLetters: "КХ НМ", fileName: "30 КХ НМ иКоНа"),
MemoCard(keyNumber: "31", keyWord: "КоЖа",
keyLetters: "КХ ГЖ", fileName: "31 КХ ГЖ КоЖа"),
MemoCard(keyNumber: "32", keyWord: "КиТ",
keyLetters: "КХ ДТ", fileName: "32 КХ ДТ КиТ"),
MemoCard(keyNumber: "33", keyWord: "КеКс",
keyLetters: "КХ КХ", fileName: "33 КХ КХ КеКс"),
MemoCard(keyNumber: "34", keyWord: "КоЧат",
keyLetters: "КХ ЧЩ", fileName: "34 КХ ЧЩ КоЧан"),
MemoCard(keyNumber: "35", keyWord: "КуБ",
keyLetters: "КХ БП", fileName: "35 КХ ПБ КуБ"),
MemoCard(keyNumber: "36", keyWord: "Клей",
keyLetters: "КХ ШЛ", fileName: "36 КХ ШЛ Клей"),
MemoCard(keyNumber: "37", keyWord: "КоСф",
keyLetters: "КХ СЗ", fileName: "37 КХ СЗ КоСа"),
MemoCard(keyNumber: "38", keyWord: "ХВоя",
keyLetters: "КХ ВФ", fileName: "38 КХ ВФ ХВоя"),
MemoCard(keyNumber: "39", keyWord: "яКоРь",
keyLetters: "КХ РЦ", fileName: "39 КХ РЦ яКоРь"),
MemoCard(keyNumber: "40", keyWord: "ЧайНик",
keyLetters: "ЧЩ НМ", fileName: "40 ЧЩ НМ ЧайНик"),
MemoCard(keyNumber: "41", keyWord: "ЧуГуток",
keyLetters: "ЧЩ ГЖ", fileName: "41 ЧЩ ГЖ ЧуГунок"),
MemoCard(keyNumber: "42", keyWord: "ЩиТ",
keyLetters: "ЧЩ ДТ", fileName: "42 ЧЩ ДТ ЩиТ"),
MemoCard(keyNumber: "43", keyWord: "оЧКи",
keyLetters: "ЧЩ КХ", fileName: "43 ЧЩ КХ оЧКи"),
MemoCard(keyNumber: "44", keyWord: "Чучело",
keyLetters: "ЧЩ ЧЩ", fileName: "44 ЧЩ ЧЩ Чучело"),
MemoCard(keyNumber: "45", keyWord: "ЧиП",
keyLetters: "ЧЩ БП", fileName: "45 ЧЩ БП ЧиП"),

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MemoCard(keyNumber: "46", keyWord: "Чашка",
  keyLetters: "ЧЩ ШЛ", fileName: "46 ЧЩ ШЛ Чашка"),
MemoCard(keyNumber: "47", keyWord: "Часы",
  keyLetters: "ЧЩ СЗ", fileName: "47 ЧЩ СЗ Часы"),
MemoCard(keyNumber: "48", keyWord: "Щавель",
  keyLetters: "ЧЩ ВФ", fileName: "48 ЧЩ ВФ Щавель"),
MemoCard(keyNumber: "49", keyWord: "Череп",
  keyLetters: "ЧЩ РЦ", fileName: "49 ЧЩ РЦ Череп"),
MemoCard(keyNumber: "50", keyWord: "Баян",
  keyLetters: "БП НМ", fileName: "50 БП НМ Баян"),
MemoCard(keyNumber: "51", keyWord: "ПоГоны",
  keyLetters: "БП ГЖ", fileName: "51 БП ГЖ ПоГоны"),
MemoCard(keyNumber: "52", keyWord: "Бита",
  keyLetters: "БП ДТ", fileName: "52 БП ДТ Бита"),
MemoCard(keyNumber: "53", keyWord: "Паук",
  keyLetters: "БП КХ", fileName: "53 БП КХ Паук"),
MemoCard(keyNumber: "54", keyWord: "Печь",
  keyLetters: "БП ЧЩ", fileName: "54 БП ЧЩ Печь"),
MemoCard(keyNumber: "55", keyWord: "Пюпитр",
  keyLetters: "БП БП", fileName: "55 БП БП Пюпитр"),
MemoCard(keyNumber: "56", keyWord: "Пила",
  keyLetters: "БП ШЛ", fileName: "56 БП ШЛ Пила"),
MemoCard(keyNumber: "57", keyWord: "Бусы",
  keyLetters: "БП СЗ", fileName: "57 БП СЗ Бусы"),
MemoCard(keyNumber: "58", keyWord: "Пиво",
  keyLetters: "БП ВФ", fileName: "58 БП ВФ Пиво"),
MemoCard(keyNumber: "59", keyWord: "Перо",
  keyLetters: "БП РЦ", fileName: "59 БП РЦ Перо"),
MemoCard(keyNumber: "60", keyWord: "Шина",
  keyLetters: "ШЛ НМ", fileName: "60 ШЛ НМ Шина"),
MemoCard(keyNumber: "61", keyWord: "Лыжи",
  keyLetters: "ШЛ ГЖ", fileName: "61 ШЛ ГЖ Лыжи"),
MemoCard(keyNumber: "62", keyWord: "Ладья",
  keyLetters: "ШЛ ДТ", fileName: "62 ШЛ ДТ Ладья")]

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init() {

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    mainGame = ParameterList(direction:
        Directions.forward, firstNumber: 0, finishNumber:
        memoCards.count - 1)
    currentGame = mainGame

```

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}

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func getParameters() -> ParameterList {
    return currentGame
}

```

```
}
```

```
func changeDirection() {  
    var newGame = currentGame  
    if newGame?.direction == .forward {  
        newGame?.direction = .backward  
    } else if newGame?.direction == .backward {  
        newGame?.direction = .random  
    } else {  
        newGame?.direction = .forward  
    }  
  
    currentGame = newGame  
}
```

```
// func numberOrImageLayer() {  
//     var newGame =  
//  
// }
```

```
func selectImage() -> String {  
  
    let imageName: String = selectedImage.fileName  
  
    self.selectedImage =  
        self.memoCards.randomElement() ??  
        MemoCard(keyNumber: "00", keyWord: "HoMepok",  
            keyLetters: "HM", fileName: "00 HM HoMepok")  
  
    var selectedPicture = self.selectedImage.fileName  
  
    while selectedPicture == imageName {  
        self.selectedImage =  
            self.memoCards.randomElement() ??  
            MemoCard(keyNumber: "00", keyWord: "HoMepok",  
                keyLetters: "HM", fileName: "00 HM HoMepok")  
        selectedPicture = self.selectedImage.fileName  
    }  
    return selectedPicture  
    //  
    // Возвращает картинку выбранной карточки  
}
```

}