Aplikacje mobilne 15 maja 2023

- 1. Aplikacja typu lista-szczegóły
 - 1.1 Aplikacja składa się z dwóch aktywności: głównej wyświetlającej listę potraw oraz aktywności szczegółów uruchamianej po kliknięciu wybranej potrawy z listy i wyświetlającej co najmniej listę składników oraz sposób przygotowania potrawy.
 - 1.1.1 Aktywność wyświetlająca listę potraw.

```
class RecipeListFragment : Fragment() {
    private var _binding: FragmentRecipeListBinding? = null
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?,
        savedInstanceState: Bundle?,
): View {
        _binding = FragmentRecipeListBinding.inflate(inflater, container, false)
        return binding.root
}

    override fun onViewCreated(view: View, savedInstanceState: Bundle?) {
        super.onViewCreated(view, savedInstanceState)

        val recyclerView: RecyclerView = binding.itemList

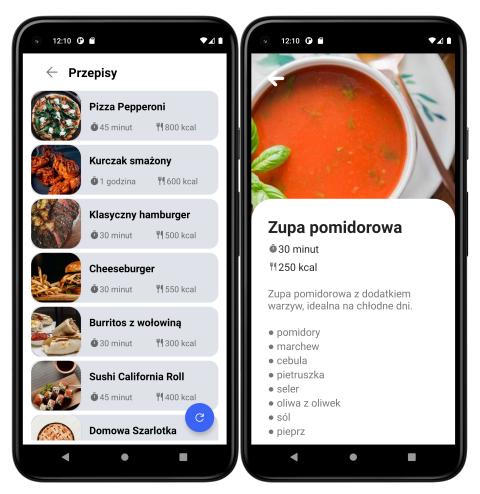
        val itemDetailFragmentContainer: View? =
            view.findViewById(R.id.item_detail_nav_container)

        setupRecyclerView(recyclerView, itemDetailFragmentContainer)
}
```

1.1.2 Wyświetlanie listy przepisów i pobieranie ich z serwera.

```
private fun setupRecyclerView(
    recyclerView: RecyclerView,
    itemDetailFragmentContainer: View?,
    RetrofitInstance.api.getRecipes().enqueue(object : retrofit2.Callback<List<Recipe>> {
        override fun onResponse(
            call: retrofit2.Call<List<Recipe>>,
            response: retrofit2.Response<List<Recipe>>,
        ) {
            if (response.isSuccessful && response.body() != null) {
                val recipes = (response.body())!!
                for (recipe in recipes) {
                    Log.e(ContentValues.TAG, recipe.title)
                recyclerView.adapter = SimpleItemRecyclerViewAdapter(
                    recipes, itemDetailFragmentContainer
                Log.e(ContentValues.TAG, "Response not successful")
        override fun onFailure(call: retrofit2.Call<List<Recipe>>, t: Throwable) {
            Log.e(ContentValues.TAG, "Response not successful")
```

1.2 Osobna wersja dla smartfonów i tabletów.



Rysunek 1: Wersja dla smartfonów



Rysunek 2: Wersja dla tabletów

2. Dodanie timera

```
class TimerFragment : Fragment() {
   private var _binding: FragmentTimerBinding? = null
   private val binding get() = _binding!!
   private lateinit var startButton: AppCompatButton
   private lateinit var resetTimerButton: AppCompatButton
   private lateinit var stopButton: AppCompatButton
   private lateinit var timerValue: TextView
   private var isTimerRunning: Boolean = false
   private var time: Long = 0L
   private var timeRemaining: Long = OL
   private var timer: CountDownTimer? = null
   override fun onCreate(savedInstanceState: Bundle?) {
       super.onCreate(savedInstanceState)
       val totalTime = arguments?.getString("total_time")
       if (totalTime != null) {
            time = totalTime.toLong() * 60000
       timeRemaining = time
   override fun onCreateView(
       inflater: LayoutInflater, container: ViewGroup?,
       savedInstanceState: Bundle?,
        _binding = FragmentTimerBinding.inflate(inflater, container, false)
       val rootView = binding.root
        startButton = binding.startTimerButton
        stopButton = binding.stopTimerButton
        resetTimerButton = binding.resetTimerButton
        timerValue = binding.timerValue
       val initialTime = time / 1000
       if (!isTimerRunning) {
            timerValue.text = String.format(
                initialTime / 3600,
                (initialTime % 3600) / 60,
                initialTime % 60
```

2.1 Przycisk start

```
startButton.setOnClickListener {
        if (!isTimerRunning) {
            timer = object : CountDownTimer(timeRemaining, 1000L) {
                override fun onTick(millisUntilFinished: Long) {
                    timeRemaining = millisUntilFinished
                    updateTimerText()
                override fun onFinish() {
                    startVibrations()
                    isTimerRunning = false
                    updateTimerText()
                    timeRemaining = time
            timer?.start()
            isTimerRunning = true
            timer = object : CountDownTimer(timeRemaining, 1000L) {
                override fun onTick(millisUntilFinished: Long) {
                    timeRemaining = millisUntilFinished
                    updateTimerText()
                override fun onFinish() {
                    startVibrations()
                    isTimerRunning = false
                    updateTimerText()
                    timeRemaining = time
            timer?.start()
```

2.2 Przycisk stop i reset

```
stopButton.setOnClickListener {
   onStop()
resetTimerButton.setOnClickListener {
   resetTimer()
override fun onStop() {
   super.onStop()
   if (isTimerRunning) {
       timer?.cancel()
        timer = null
private fun resetTimer() {
   if (isTimerRunning) {
       timer?.cancel()
        timeRemaining = oL
        updateTimerText()
        timer = null
        timeRemaining = time
```

- 3. Elementy biblioteki wsparcia wzornictwa
 - 3.1 Fragment z kategoriami przepisów działa analogicznie do listy przepisów tylko jest on przekazywany do GridLayoutManager.

```
private fun setupCategoryRecyclerView(
   recyclerView: RecyclerView,
    itemListFragmentContainer: View?,
) {
   RetrofitInstance.api.getCategories().enqueue(object : Callback<List<Category>> {
       override fun onResponse(
            call: Call<List<Category>>,
            response: Response<List<Category>>,
       ) {
            if (response.isSuccessful && response.body() != null) {
                val categories = (response.body())!!
                for (category in categories) {
                    Log.e(ContentValues.TAG, category.name)
                val gridNum = 2;
                val layoutManager = GridLayoutManager(recyclerView.context, gridNum)
                recyclerView.layoutManager = layoutManager
                recyclerView.adapter = CategoryRecyclerViewAdapter(
                    categories, itemListFragmentContainer
                Log.e(ContentValues.TAG, response.code().toString())
                Log.e(ContentValues.TAG, "Response not successful")
       override fun onFailure(call: Call<List<Category>>, t: Throwable) {
            Log.e(ContentValues.TAG, "Response not successful")
            Log.e(ContentValues.TAG, t.message.toString())
```