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**«HSE COFFEE» - КЛИЕНТ-СЕРВЕРНОЕ ПРИЛОЖЕНИЕ ДЛЯ ЗНАКОМСТВ НА
ANDROID & IOS**

МОБИЛЬНЫЙ КЛИЕНТ

Текст программы

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ОГЛАВЛЕНИЕ

1. ТЕКСТ ПРОГРАММЫ	4
1.1. contact.dart	4
1.2. contact.g.dart	4
1.3. degree.dart	5
1.4. faculty.dart.....	5
1.5. gender.dart	5
1.6. meet.dart.....	5
1.7. meet.g.dart	6
1.8. meet_status.dart	7
1.9. search_params.dart	7
1.10. search_params.g.dart	8
1.11. user.dart	10
1.12. user.g.dart	11
1.13. api.dart	13
1.14. auth.dart	19
1.15. event_wrapper.dart.....	20
1.16. user_storage.dart	20
1.17. main.dart	21
1.18. router_auth.dart	22
1.19. auth_code.dart.....	22
1.20. auth_contacts.dart.....	26
1.21. auth_email.dart.....	29
1.22. auth_faculty.dart.....	32
1.23. auth_gender.dart.....	35
1.24. auth_name.dart	39
1.25. auth_photo.dart	42
1.26. header.dart.....	45
1.27. home.dart	46
1.28. home_cabinet.dart	49
1.29. home_cabinet_header.dart.....	50
1.30. home_cabinet_settings.dart.....	53

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1.31.	home_find_start.dart.....	57
1.32.	home_loading.dart.....	63
1.33.	home_meets.dart	66
1.34.	home_person_info.dart.....	69
1.35.	splash.dart	72
1.36.	splash_background.dart	73
1.37.	auth_faculty_items.dart	75
1.38.	button_continue.dart.....	76
1.39.	capsule_widget.dart.....	77
1.40.	dialog_loading.dart.....	78
1.41.	edu_fields.dart.....	78
1.42.	text_field_wrapper.dart	80
1.43.	toggle_button_gender.dart	81

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1. ТЕКСТ ПРОГРАММЫ

1.1. contact.dart

```
import 'package:json_annotation/json_annotation.dart';

part 'contact.g.dart';

@JsonSerializable()
class Contact {
  String name;
  String value;

  Contact(this.name, this.value);

  factory Contact.fromJson(Map<String, dynamic> json) =>
    _$ContactFromJson(json);

  Map<String, dynamic> toJson() => _$ContactToJson(this);

  static Contact createVk(String login) {
    return Contact("vk", login);
  }

  static Contact createTelegram(String login) {
    return Contact("tg", login);
  }

  static Contact createInstagram(String login) {
    return Contact("inst", login);
  }
}
```

1.2. contact.g.dart

```
part of 'contact.dart';

// *****
// JsonSerializerGenerator
// *****

Contact _$ContactFromJson(Map<String, dynamic> json) {
  return Contact(
    json['name'] as String,
    json['value'] as String,
  );
}

Map<String, dynamic> _$ContactToJson(Contact instance) => <String, dynamic>{
  'name': instance.name,
  'value': instance.value,
};
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1.3. degree.dart

```
enum Degree { NONE, BACHELOR, MAGISTRACY, SPECIALTY, POSTGRADUATE }
```

1.4. faculty.dart

```
enum Faculty {  
  LYCEUM,  
  MATH,  
  ECONOMY,  
  ELECTRONIC,  
  COMPUTER,  
  BUSINESS,  
  LAWYER,  
  JURISPRUDENCE,  
  HUMANITARIAN,  
  SOCIAL,  
  MEDIA,  
  WORLD_ECONOMY,  
  MIEF,  
  PHYSICS,  
  CITY,  
  CHEMICAL,  
  BIOLOGY,  
  GEOGRAPHY,  
  LANGUAGE,  
  STATISTIC,  
  BANK,  
  NONE  
}
```

1.5. gender.dart

```
enum Gender { MALE, FEMALE, NONE }
```

1.6. meet.dart

```
import 'package:hse_coffee/data/meet_status.dart';  
import 'package:hse_coffee/data/user.dart';  
import 'package:json_annotation/json_annotation.dart';  
  
part 'meet.g.dart';  
  
@JsonSerializable()  
class Meet {  
  User user1;  
  User user2;  
  
  MeetStatus meetStatus;  
  DateTime createdAt;  
  DateTime expiresDate;  
  
  Meet(this.user1, this.user2, this.meetStatus, this.createdAt,  
    this.expiresDate);  
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
factory Meet.fromJson(Map<String, dynamic> json) => _$MeetFromJson(json);

Map<String, dynamic> toJson() => _$MeetToJson(this);
}
```

1.7. meet.g.dart

```
part of 'meet.dart';

// *****
// JsonSerializableGenerator
// *****

Meet _$MeetFromJson(Map<String, dynamic> json) {
  return Meet(
    json['user1'] == null
      ? null
      : User.fromJson(json['user1'] as Map<String, dynamic>),
    json['user2'] == null
      ? null
      : User.fromJson(json['user2'] as Map<String, dynamic>),
    _$enumDecodeNullable(_$MeetStatusEnumMap, json['meetStatus']),
    json['createdAt'] == null
      ? null
      : DateTime.fromMillisecondsSinceEpoch(json['createdAt'] as int),
    json['expiresDate'] == null
      ? null
      : DateTime.fromMillisecondsSinceEpoch(json['expiresDate'] as int),
  );
}

Map<String, dynamic> _$MeetToJson(Meet instance) => <String, dynamic>{
  'user1': instance.user1,
  'user2': instance.user2,
  'meetStatus': _$MeetStatusEnumMap[instance.meetStatus],
  'createdAt': instance.createdAt?.toIso8601String(),
  'expiresDate': instance.expiresDate?.toIso8601String(),
};

T _$enumDecode<T>(
  Map<T, dynamic> enumValues,
  dynamic source, {
  T unknownValue,
}) {
  if (source == null) {
    throw ArgumentError('A value must be provided. Supported values: '
      '${enumValues.values.join(', ')}');
  }

  final value = enumValues.entries
    .singleWhere((e) => e.value == source, orElse: () => null)
    ?.key;
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    if (value == null && unknownValue == null) {
      throw ArgumentError("`$source` is not one of the supported values: '
        '${enumValues.values.join(', ')}');
    }
    return value ?? unknownValue;
  }

T _$enumDecodeNullable<T>(
  Map<T, dynamic> enumValues,
  dynamic source, {
  T unknownValue,
}) {
  if (source == null) {
    return null;
  }
  return _$enumDecode<T>(enumValues, source, unknownValue: unknownValue);
}

const _$MeetStatusEnumMap = {
  MeetStatus.ACTIVE: 'ACTIVE',
  MeetStatus.FINISHED: 'FINISHED',
  MeetStatus.SEARCH: 'SEARCH',
  MeetStatus.NONE: 'NONE',
  MeetStatus.ERROR: 'ERROR',
};

```

1.8. meet_status.dart

```
enum MeetStatus { ACTIVE, FINISHED, SEARCH, NONE, ERROR }
```

1.9. search_params.dart

```

import 'package:hse_coffee/data/faculty.dart';
import 'package:json_annotation/json_annotation.dart';

import 'degree.dart';
import 'gender.dart';

part 'search_params.g.dart';

@JsonSerializable()
class SearchParams {
  Set<Gender> genders;
  Set<Faculty> faculties;
  Set<Degree> degrees;

  int minCourse;
  int maxCourse;

  SearchParams(this.genders, this.faculties, this.degrees, this.minCourse,
    this.maxCourse);
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
factory SearchParams.fromJson(Map<String, dynamic> json) =>
  _$SearchParamsFromJson(json);

Map<String, dynamic> toJson() => _$SearchParamsToJson(this);
}
```

1.10. search_params.g.dart

part of 'search_params.dart';

```
// *****
// JsonSerializableGenerator
// *****
```

```
SearchParams _$SearchParamsFromJson(Map<String, dynamic> json) {
  return SearchParams(
    (json['gender'] as List)
      ?.map((e) => _$enumDecodeNullable(_$GenderEnumMap, e))
      ?.toSet(),
    (json['faculty'] as List)
      ?.map((e) => _$enumDecodeNullable(_$FacultyEnumMap, e))
      ?.toSet(),
    (json['degree'] as List)
      ?.map((e) => _$enumDecodeNullable(_$DegreeEnumMap, e))
      ?.toSet(),
    json['minCourse'] as int,
    json['maxCourse'] as int,
  );
}

Map<String, dynamic> _$SearchParamsToJson(SearchParams instance) =>
  <String, dynamic>{
    'gender': instance.gender?.map((e) => _$GenderEnumMap[e])?.toList(),
    'faculty':
      instance.faculty?.map((e) => _$FacultyEnumMap[e])?.toList(),
    'degree': instance.degree?.map((e) => _$DegreeEnumMap[e])?.toList(),
    'minCourse': instance.minCourse,
    'maxCourse': instance.maxCourse,
  };

T _$enumDecode<T>(
  Map<T, dynamic> enumValues,
  dynamic source, {
  T unknownValue,
}) {
  if (source == null) {
    throw ArgumentError('A value must be provided. Supported values: '
      '${enumValues.values.join(', ')}');
  }

  final value = enumValues.entries
    .singleWhere((e) => e.value == source, orElse: () => null)
    ?.key;
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

    if (value == null && unknownValue == null) {
        throw ArgumentError(`$source` is not one of the supported values: '
            `${enumValues.values.join(', ')}');
    }
    return value ?? unknownValue;
}

T _$enumDecodeNullable<T>(
    Map<T, dynamic> enumValues,
    dynamic source, {
    T unknownValue,
}) {
    if (source == null) {
        return null;
    }
    return _$enumDecode<T>(enumValues, source, unknownValue: unknownValue);
}

const _$GenderEnumMap = {
    Gender.MALE: 'MALE',
    Gender.FEMALE: 'FEMALE',
    Gender.NONE: 'NONE',
};

const _$FacultyEnumMap = {
    Faculty.LYCEUM: 'LYCEUM',
    Faculty.MATH: 'MATH',
    Faculty.ECONOMY: 'ECONOMY',
    Faculty.ELECTRONIC: 'ELECTRONIC',
    Faculty.COMPUTER: 'COMPUTER',
    Faculty.BUSINESS: 'BUSINESS',
    Faculty.LAWYER: 'LAWYER',
    Faculty.JURISPRUDENCE: 'JURISPRUDENCE',
    Faculty.HUMANITARIAN: 'HUMANITARIAN',
    Faculty.SOCIAL: 'SOCIAL',
    Faculty.MEDIA: 'MEDIA',
    Faculty.WORLD_ECONOMY: 'WORLD_ECONOMY',
    Faculty.MIEF: 'MIEF',
    Faculty.PHYSICS: 'PHYSICS',
    Faculty.CITY: 'CITY',
    Faculty.CHEMICAL: 'CHEMICAL',
    Faculty.BIOLOGY: 'BIOLOGY',
    Faculty.GEOGRAPHY: 'GEOGRAPHY',
    Faculty.LANGUAGE: 'LANGUAGE',
    Faculty.STATISTIC: 'STATISTIC',
    Faculty.BANK: 'BANK',
    Faculty.NONE: 'NONE',
};

const _$DegreeEnumMap = {
    Degree.NONE: 'NONE',
    Degree.BACHELOR: 'BACHELOR',
    Degree.MAGISTRACY: 'MAGISTRACY',
    Degree.SPECIALTY: 'SPECIALTY',
};

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
Degree.POSTGRADUATE: 'POSTGRADUATE',  
};
```

1.11. user.dart

```
import 'package:json_annotation/json_annotation.dart';  
  
import 'contact.dart';  
import 'degree.dart';  
import 'faculty.dart';  
import 'gender.dart';  
  
part 'user.g.dart';  
  
@JsonSerializable(explicitToJson: true)  
class User {  
  String email;  
  String firstName;  
  String lastName;  
  Gender gender;  
  Degree degree;  
  Faculty faculty;  
  Set<Contact> contacts;  
  int course;  
  String photoUri;  
  String aboutMe;  
  
  User(  
    {this.email,  
     this.firstName,  
     this.lastName,  
     this.gender,  
     this.degree,  
     this.faculty,  
     this.contacts,  
     this.course,  
     this.photoUri,  
     this.aboutMe});  
  
  factory User.fromJson(Map<String, dynamic> json) => _$UserFromJson(json);  
  
  Map<String, dynamic> toJson() => _$UserToJson(this);  
  
  String getFullName() {  
    return firstName + " " + lastName;  
  }  
  
  String getVk() {  
    return _getValueContact("vk");  
  }  
  
  String getInst() {  
    return _getValueContact("inst");  
  }  
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
String getTelegram() {
  return "${_getValueContact("tg")}";
}

String _getValueContact(String name) {
  Contact contact;

  try {
    contact = contacts.firstWhere((element) => element.name == name);
  } catch (StateError) {
    return "";
  }

  return contact.value;
}
```

1.12. user.g.dart

```
part of 'user.dart';

// *****
// JsonSerializableGenerator
// *****

User _$UserFromJson(Map<String, dynamic> json) {
  return User(
    email: json['email'] as String,
    firstName: json['firstName'] as String,
    lastName: json['lastName'] as String,
    gender: _enumDecodeNullable(_$GenderEnumMap, json['gender']),
    degree: _enumDecodeNullable(_$DegreeEnumMap, json['degree']),
    faculty: _enumDecodeNullable(_$FacultyEnumMap, json['faculty']),
    contacts: (json['contacts'] as List)
      ?.map((e) =>
        e == null ? null : Contact.fromJson(e as Map<String, dynamic>))
      ?.toSet(),
    course: json['course'] as int,
    photoUri: json['photoUri'] as String,
    aboutMe: json['aboutMe'] as String,
  );
}

Map<String, dynamic> _$UserToJson(User instance) => <String, dynamic>{
  'email': instance.email,
  'firstName': instance.firstName,
  'lastName': instance.lastName,
  'gender': _$GenderEnumMap[instance.gender],
  'degree': _$DegreeEnumMap[instance.degree],
  'faculty': _$FacultyEnumMap[instance.faculty],
  'contacts': instance.contacts?.map((e) => e.toJson()).toList(),
  'course': instance.course,
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        'photoUri': instance.photoUri,
        'aboutMe': instance.aboutMe
    };

T _$enumDecode<T>(
    Map<T, dynamic> enumValues,
    dynamic source, {
    T unknownValue,
}) {
    if (source == null) {
        throw ArgumentError('A value must be provided. Supported values: '
            '${enumValues.values.join(', ')}');
    }

    final value = enumValues.entries
        .singleWhere((e) => e.value == source, orElse: () => null)
        ?.key;

    if (value == null && unknownValue == null) {
        throw ArgumentError('`$source` is not one of the supported values: '
            '${enumValues.values.join(', ')}');
    }
    return value ?? unknownValue;
}

T _$enumDecodeNullable<T>(
    Map<T, dynamic> enumValues,
    dynamic source, {
    T unknownValue,
}) {
    if (source == null) {
        return null;
    }
    return _$enumDecode<T>(enumValues, source, unknownValue: unknownValue);
}

const _$GenderEnumMap = {
    Gender.MALE: 'MALE',
    Gender.FEMALE: 'FEMALE',
    Gender.NONE: 'NONE',
};

const _$DegreeEnumMap = {
    Degree.NONE: 'NONE',
    Degree.BACHELOR: 'BACHELOR',
    Degree.MAGISTRACY: 'MAGISTRACY',
    Degree.SPECIALTY: 'SPECIALTY',
    Degree.POSTGRADUATE: 'POSTGRADUATE',
};

const _$FacultyEnumMap = {
    Faculty.LYCEUM: 'LYCEUM',
    Faculty.MATH: 'MATH',
    Faculty.ECONOMY: 'ECONOMY',
    Faculty.ELECTRONIC: 'ELECTRONIC',
    Faculty.COMPUTER: 'COMPUTER',

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
Faculty.BUSINESS: 'BUSINESS',  
Faculty.LAWYER: 'LAWYER',  
Faculty.JURISPRUDENCE: 'JURISPRUDENCE',  
Faculty.HUMANITARIAN: 'HUMANITARIAN',  
Faculty.SOCIAL: 'SOCIAL',  
Faculty.MEDIA: 'MEDIA',  
Faculty.WORLD_ECONOMY: 'WORLD_ECONOMY',  
Faculty.MIEF: 'MIEF',  
Faculty.PHYSICS: 'PHYSICS',  
Faculty.CITY: 'CITY',  
Faculty.CHEMICAL: 'CHEMICAL',  
Faculty.BIOLOGY: 'BIOLOGY',  
Faculty.GEOGRAPHY: 'GEOGRAPHY',  
Faculty.LANGUAGE: 'LANGUAGE',  
Faculty.STATISTIC: 'STATISTIC',  
Faculty.BANK: 'BANK',  
Faculty.NONE: 'NONE',  
};
```

1.13. api.dart

```
import 'dart:convert';  
import 'dart:io';  
import 'dart:math';  
  
import 'package:dio/dio.dart' as dio;  
import 'package:hse_coffee/business_logic/auth.dart';  
import 'package:hse_coffee/business_logic/event_wrapper.dart';  
import 'package:hse_coffee/data/meet.dart';  
import 'package:hse_coffee/data/meet_status.dart';  
import 'package:hse_coffee/data/search_params.dart';  
import 'package:hse_coffee/data/user.dart';  
import 'package:http/http.dart' as http;  
  
class Api {  
  static const String _Ip = "http://188.120.233.197";  
  
  static int _number = 0;  
  
  static updateImage() {  
    _number = Random().nextInt(99999);  
  }  
  
  static const Map<String, String> headers = {  
    'Content-type': 'application/json',  
    'Accept': 'application/json',  
  };  
  
  static String getImageUrlByUser(User user) {  
    return _Ip + "/" + user.photoUri + "?$_number";  
  }  
  
  static Future<EventWrapper<bool>> sendCode(String email) async {  
    print("/api/code?email=$email");  
  }  
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
final response = await http.post('$_Ip/api/code?email=$email');

print("Код: ${response.statusCode}");

if (response.statusCode == 200) {
  return EventWrapper(response.statusCode, true, "Удачно");
}

if (response.body != null)
  return EventWrapper(response.statusCode, null, response.body);

return EventWrapper(
  response.statusCode, null, "Связь с сервером не была установлена");
}

static Future<EventWrapper<bool>> confirmCode(
  String code, String email) async {
  var fingerprint = await Auth.getFingerprint();

  print(
    "/api/confirm. Email: $email; fingerprint: $fingerprint; code: $code");

  final response = await http.post('$_Ip/api/confirm',
    body: {"email": email, "fingerprint": fingerprint, "code": code});

  print("Код: ${response.statusCode}");

  if (response.statusCode == 200) {
    await Auth.saveDataByJson(email, response.body);
    return EventWrapper(response.statusCode, true, "Удачно");
  }

  if (response.body != null)
    return EventWrapper(response.statusCode, null, response.body);

  return EventWrapper(
    response.statusCode, null, "Связь с сервером не была установлена");
}

static Future<EventWrapper<MeetStatus>> search(
  SearchParams searchParams) async {
  final accessToken = await Auth.getAccessToken();
  print("POST: /api/search/. accessToken = [$accessToken]");

  var jsonEnc = json.encode(searchParams.toJson());

  print(jsonEnc);

  final response = await http.post('$_Ip/api/search/$accessToken',
    body: jsonEnc, headers: headers);

  print("Код: ${response.statusCode}");

  if (response.statusCode == 200) {
    return EventWrapper(
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
        response.statusCode, _getMeetByResponse(response), "Удачно");
    }

    if ((response.statusCode == 403 || response.statusCode == 401) &&
        (await _updateTokens()) == true) {
        return search(searchParams);
    }

    if (response.body != null)
        return EventWrapper(response.statusCode, null, response.body);

    return EventWrapper(
        response.statusCode, null, "Связь с сервером не была установлена");
}

static Future<EventWrapper<MeetStatus>> cancelSearch() async {
    final accessToken = await Auth.getAccessToken();
    print("DELETE: /api/meet. accessToken = [$accessToken]");

    final response =
        await http.delete('$_Ip/api/meet/$accessToken', headers: headers);

    print("Код: ${response.statusCode}");

    if (response.statusCode == 200) {
        return EventWrapper(
            response.statusCode, _getMeetByResponse(response), "Удачно");
    }

    if ((response.statusCode == 403 || response.statusCode == 401) &&
        (await _updateTokens()) == true) {
        return cancelSearch();
    }

    if (response.body != null)
        return EventWrapper(response.statusCode, null, response.body);

    return EventWrapper(
        response.statusCode, null, "Связь с сервером не была установлена");
}

static MeetStatus _getMeetByResponse(http.Response response) {
    var meetStatus;

    try {
        meetStatus = MeetStatus.values.firstWhere((element) =>
            element.toString().toLowerCase().replaceAll("meetstatus.", "") ==
            response.body.toLowerCase());
    } catch (StateError) {
        print("Ошибка при получении meetStatus из ${response.body}");
        meetStatus = MeetStatus.NONE;
    }

    return meetStatus;
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

static Future<EventWrapper<bool>> setUser(User user) async {
  final accessToken = await Auth.getAccessToken();
  print("PUT: /api/user/settings/. accessToken = [$accessToken]");

  var jsonEnc = json.encode(user.toJson());

  print(jsonEnc);

  final response = await http.put('$_Ip/api/user/settings/$accessToken',
    body: jsonEnc, headers: headers);

  print("Код: ${response.statusCode}");

  if (response.statusCode == 200) {
    return EventWrapper(response.statusCode, true, "Удачно");
  }

  if ((response.statusCode == 403 || response.statusCode == 401) &&
    (await _updateTokens()) == true) {
    return setUser(user);
  }

  if (response.body != null)
    return EventWrapper(response.statusCode, null, response.body);

  return EventWrapper(
    response.statusCode, null, "Связь с сервером не была установлена");
}

static Future<EventWrapper<bool>> setPhoto(User user, File file) async {
  final accessToken = await Auth.getAccessToken();
  print("POST: api/user/image/. accessToken = [$accessToken]");

  var jsonEnc = json.encode(user.toJson());

  print(jsonEnc);

  dio.FormData formData = new dio.FormData.fromMap(
    {"image": await dio.MultipartFile.fromFile(file.path)});

  final response = await dio.Dio()
    .post("$_Ip/api/user/image/$accessToken", data: formData);

  print("Код: ${response.statusCode}");

  if (response.statusCode == 200) {
    return EventWrapper(response.statusCode, true, "Удачно");
  }

  if ((response.statusCode == 403 || response.statusCode == 401) &&
    (await _updateTokens()) == true) {
    return setPhoto(user, file);
  }

  if (response.data != null)
    return EventWrapper(response.statusCode, null, response.data);
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

return EventWrapper(
    response.statusCode, null, "Связь с сервером не была установлена");
}

static Future<EventWrapper<User>> getUser() async {
    final accessToken = await Auth.getAccessToken();
    print("GET: /api/user. accessToken = [$accessToken]");

    final response = await http.get('$_Ip/api/user/settings/$accessToken');

    print("Код: ${response.statusCode}");

    if (response.statusCode == 200) {
        var user = User.fromJson(jsonDecode(response.body));

        print("GET 200: ${user.toString()}");
        return EventWrapper(response.statusCode, user, "Удачно");
    }

    if ((response.statusCode == 403 || response.statusCode == 401) &&
        (await _updateTokens()) == true) {
        return getUser();
    }

    if (response.body != null)
        return EventWrapper(response.statusCode, null, response.body);

    return EventWrapper(
        response.statusCode, null, "Связь с сервером не была установлена");
}

static Future<EventWrapper<Meet>> getMeet() async {
    final accessToken = await Auth.getAccessToken();
    print("GET: /api/meet. accessToken = [$accessToken]");

    final response = await http.get('$_Ip/api/meet/$accessToken');

    print("Код: ${response.statusCode}");

    if (response.statusCode == 200) {
        Meet meet = Meet.fromJson(json.decode(response.body));

        print("GET 200: ${meet.toJson()}");
        return EventWrapper(response.statusCode, meet, "Удачно");
    }

    if ((response.statusCode == 403 || response.statusCode == 401) &&
        (await _updateTokens()) == true) {
        return getMeet();
    }

    if (response.body != null)
        return EventWrapper(response.statusCode, null, response.body);

    return EventWrapper(

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
        response.statusCode, null, "Связь с сервером не была установлена");
    }

    static Future<EventWrapper<List<Meet>>> getMeets() async {
        final accessToken = await Auth.getAccessToken();
        print("GET: /api/meets. accessToken = [$accessToken]");

        final response = await http.get('$_Ip/api/meets/$accessToken');

        print("Код: ${response.statusCode}");

        if (response.statusCode == 200) {
            Iterable l = json.decode(response.body);
            List<Meet> meets =
                List<Meet>.from(l.map((model) => Meet.fromJson(model)));

            print("GET 200: ${meets.toString()}");
            return EventWrapper(response.statusCode, meets, "Удачно");
        }

        if ((response.statusCode == 403 || response.statusCode == 401) &&
            (await _updateTokens()) == true) {
            return getMeets();
        }

        if (response.body != null)
            return EventWrapper(response.statusCode, null, response.body);

        return EventWrapper(
            response.statusCode, null, "Связь с сервером не была установлена");
    }

    static Future<bool> _updateTokens() async {
        var email = await Auth.getEmail();
        var refreshToken = await Auth.getRefreshToken();
        var fingerprint = await Auth.getFingerprint();

        print("/api/refresh. "
            "fingerprint = [$fingerprint], "
            "email = [$email], "
            "refreshToken = [$refreshToken]");

        final response = await http.post("$_Ip/api/refresh?", body: {
            "fingerprint": fingerprint,
            "email": email,
            "refreshToken": refreshToken
        });

        print("Код: ${response.statusCode}");

        if (response.statusCode == 200) {
            await Auth.saveDataByJson(email, response.body);

            return true;
        }
    }
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
    return false;
  }
}
```

1.14. auth.dart

```
import 'dart:convert';
import 'dart:io';

import 'package:device_info/device_info.dart';
import 'package:flutter_secure_storage/flutter_secure_storage.dart';

class Auth {
  static final String emailKey = "email";
  static final String accessTokenKey = "accessToken";
  static final String refreshTokenKey = "refreshToken";

  static Future<void> saveDataByJson(String email, String json) async {
    Map<String, dynamic> jsonMap = jsonDecode(json);

    print("Данные сохранены. email = [$email], "
      "accessToken = [{jsonMap["accessToken"]}], "
      "refreshToken = [{jsonMap["refreshToken"]}]);

    var storage = FlutterSecureStorage();

    storage.write(key: emailKey, value: email);
    storage.write(key: accessTokenKey, value: jsonMap["accessToken"]);
    storage.write(key: refreshTokenKey, value: jsonMap["refreshToken"]);
  }

  static Future<Map<String, String>> getData() async {
    return FlutterSecureStorage().readAll();
  }

  static Future<String> getFingerprint() async {
    var deviceInfo = DeviceInfoPlugin();
    if (Platform.isIOS) {
      var iosDeviceInfo = await deviceInfo.iosInfo;
      return iosDeviceInfo.identifierForVendor; // unique ID on iOS
    } else {
      var androidDeviceInfo = await deviceInfo.androidInfo;
      return androidDeviceInfo.androidId; // unique ID on Android
    }
  }

  static Future<String> getAccessToken() async {
    return (await Auth.getData())[Auth.accessTokenKey];
  }

  static Future<String> getEmail() async {
    return (await Auth.getData())[Auth.emailKey];
  }
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

static Future<String> getRefreshToken() async {
  return (await Auth.getData())[Auth.refreshTokenKey];
}
}

```

1.15. event_wrapper.dart

```

class EventWrapper<T> {
  final int statusCode;
  final T _data;
  final String message;

  EventWrapper(this.statusCode, this._data, this.message);

  bool isSuccess() {
    return _data != null;
  }

  T getData() {
    if (isSuccess()) {
      return _data;
    }

    throw Exception("Data is null");
  }
}

```

1.16. user_storage.dart

```

import 'package:hse_coffee/data/user.dart';

class UserStorage {
  User _user;

  User get user {
    if (_user == null) {
      throw Exception("Get null user");
    }
    return _user;
  }

  set user(User user) {
    if (user == null) {
      throw Exception("Set null user");
    }
    _user = user;
  }

  static final UserStorage instance = UserStorage._internal();

  factory UserStorage() {
    return instance;
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
}  
UserStorage._internal();  
}
```

1.17. main.dart

```
import 'package:flutter/material.dart';  
import 'package:flutter/services.dart';  
import 'package:hse_coffee/ui/auth/auth_code.dart';  
import 'package:hse_coffee/ui/auth/auth_contacts.dart';  
import 'package:hse_coffee/ui/auth/auth_email.dart';  
import 'package:hse_coffee/ui/auth/auth_faculty.dart';  
import 'package:hse_coffee/ui/auth/auth_gender.dart';  
import 'package:hse_coffee/ui/auth/auth_name.dart';  
import 'package:hse_coffee/ui/auth/auth_photo.dart';  
import 'package:hse_coffee/ui/home/home.dart';  
import 'package:hse_coffee/ui/splash/splash.dart';  
  
void main() {  
  WidgetsFlutterBinding.ensureInitialized();  
  SystemChrome.setPreferredOrientations([DeviceOrientation.portraitUp])  
    .then((_) {  
    runApp(new HseCoffeeApp());  
  });  
}  
  
class HseCoffeeApp extends StatelessWidget {  
  final routes = <String, WidgetBuilder>{  
    AuthFacultyScreen.routeName: (BuildContext context) => AuthFacultyScreen(),  
    AuthNameScreen.routeName: (BuildContext context) => AuthNameScreen(),  
    AuthCodeScreen.routeName: (BuildContext context) => AuthCodeScreen(),  
    AuthEmailScreen.routeName: (BuildContext context) => AuthEmailScreen(),  
    AuthGenderScreen.routeName: (BuildContext context) => AuthGenderScreen(),  
    AuthPhotoScreen.routeName: (BuildContext context) => AuthPhotoScreen(),  
    AuthContactsScreen.routeName: (BuildContext context) =>  
      AuthContactsScreen(),  
    HomeScreen.routeName: (BuildContext context) =>  
      HomeScreen(title: 'HSECoffee')  
  };  
  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'HSEcoffee',  
      home: SplashScreen(nextRoute: '/auth/email'),  
      routes: routes,  
    );  
  }  
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1.18. router_auth.dart

```

import 'package:flutter/cupertino.dart';
import 'package:hse_coffee/data/faculty.dart';
import 'package:hse_coffee/data/gender.dart';
import 'package:hse_coffee/ui/auth/auth_contacts.dart';
import 'package:hse_coffee/ui/auth/auth_faculty.dart';
import 'package:hse_coffee/ui/auth/auth_gender.dart';
import 'package:hse_coffee/ui/auth/auth_name.dart';
import 'package:hse_coffee/ui/auth/auth_photo.dart';
import 'package:hse_coffee/ui/home/home.dart';

import 'data/user.dart';

class RouterHelper {
  static routeByUser(BuildContext context, User user) {
    // Если пусто имя
    if (user.firstName == null ||
        user.lastName == null ||
        user.firstName.isEmpty ||
        user.lastName.isEmpty) {
      Navigator.of(context).pushReplacementNamed(AuthNameScreen.routeName);
    }
    // Если не выбран пол
    else if (user.gender == null || user.gender == Gender.NONE) {
      Navigator.of(context).pushReplacementNamed(AuthGenderScreen.routeName);
    }
    // Если не выбран факультет
    else if (user.faculty == null ||
        user.faculty == Faculty.NONE ||
        user.course == null ||
        user.course == 0) {
      Navigator.of(context).pushReplacementNamed(AuthFacultyScreen.routeName);
    }
    // Если не указаны контактные данные
    else if (user.contacts.isEmpty) {
      Navigator.of(context).pushReplacementNamed(AuthContactsScreen.routeName);
    }
    // Если нет фотографии
    else if (!user.photoUri.contains(user.email)) {
      Navigator.of(context).pushReplacementNamed(AuthPhotoScreen.routeName);
    }
    // Иначе
    else {
      Navigator.of(context).pushReplacementNamed(HomeScreen.routeName);
    }
  }
}

```

1.19. auth_code.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

import 'package:flutter/widgets.dart';
import 'package:hse_coffee/router_auth.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'header.dart';

class AuthCodeScreen extends StatefulWidget {
  static const String routeName = "/auth/code";

  @override
  _AuthCodeScreen createState() => _AuthCodeScreen();
}

class _AuthCodeScreen extends State<AuthCodeScreen> {
  int count;
  bool _block;
  DateTime _blockTime;

  final GlobalKey<ScaffoldState>();
  final GlobalKey<FormState>();
  AnimationController rotationController;

  @override
  void initState() {
    count = 0;
    _block = false;
    super.initState();
  }

  @override
  Widget build(BuildContext context) {
    final dialogLoading = DialogLoading(context: this.context);

    String code;
    final ScreenAuthCodeArguments args =
      ModalRoute
        .of(context)
        .settings
        .arguments;

    void callSnackBar(String text) {
      ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
    }

    void errorSnackBar() {
      callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

if (_block) {
  if (DateTime.now().isAfter(_blockTime)) {
    _block = false;
  } else {
    Duration ostDate = _blockTime.difference(DateTime.now());
    globalKey.currentState.showSnackBar(SnackBar(
      content: Text(
        "Не спешите! Подождите ${ostDate
          .inMinutes} минут(ы) и ${ostDate.inSeconds %
            60} секунд(ы)."));
      )
    }
  return;
}

count++;
dialogLoading.show();
Api.sendCode(args.email)
  .then((value) =>
    {
      dialogLoading.stop(),
      if (value.statusCode == 200)
        {callSnackBar("Код был успешно выслан на почту повторно!")}
      else
        {
          count--,
          errorSnackBar(),
        }
    })
    .timeout(Duration(seconds: 15))
    .catchError((Object object) =>
      {count--, dialogLoading.stop(), errorSnackBar()});
}

Future<void> _onPressed() async {
  if (textFieldKey.currentState.validate()) {
    dialogLoading.show();
    Api.confirmCode(code, args.email)
      .then((value) =>
        {
          dialogLoading.stop(),
          if (value.isSuccess())
            {
              Api.getUser().then((value) =>
                {
                  UserStorage.instance.user = value.getData(),
                  RouterHelper.routeByUser(context, value.getData())
                })
            }
          else
            {
              callSnackBar(
                "К сожалению, код неверный или произошла ошибка.")
            }
        })
        .timeout(Duration(seconds: 15))

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

        .catchError(
            (Object object) => {dialogLoading.stop(), errorSnackBar()});
    }
}

bool isDigit(String s, int idx) => (s.codeUnitAt(idx) ^ 0x30) <= 9;

bool _isValidCodeForm(String code) {
    if (code == null || code.isEmpty) {
        return false;
    }

    if (code.length != 6) return false;

    for (int i = 0; i < code.length; i++) {
        if (!isDigit(code, i)) {
            return false;
        }
    }

    return true;
}

return Scaffold(
    key: globalKey,
    body: Builder(
        builder: (context) =>
            SingleChildScrollView(
                reverse: true,
                child:
                    Column(mainAxisSize: MainAxisSize.max, children: <Widget>[
                        Header(title: "Код"),
                        Padding(
                            padding: EdgeInsets.fromLTRB(30.0, 30.0, 30.0, 10.0),
                            child: Form(
                                key: textFieldKey,
                                child: TextFormField(
                                    keyboardType: TextInputType.number,
                                    cursorColor: Colors.blueAccent,
                                    decoration: InputDecoration(
                                        suffixIcon: IconButton(
                                            onPressed: _onRetry,
                                            icon: Icon(Icons.refresh),
                                        ),
                                        hintText: 'Введите код письма',
                                        border: OutlineInputBorder(
                                            borderRadius: BorderRadius.circular(16.0),
                                            borderSide: BorderSide(
                                                width: 2,
                                                color: Colors.blueAccent,
                                            ),
                                        ),
                                    ),
                                    errorBorder: OutlineInputBorder(
                                        borderRadius: BorderRadius.circular(16.0),
                                        borderSide: BorderSide(
                                            width: 2,

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        color: Colors.red,
      ),
    ),
    labelText: 'Код',
  ),
  validator: (input) =>
    _isValidCodeForm(input)
      ? null
      : "Код состоит только из 6-ти цифр.",
  onChanged: (String value) {
    code = value;
  },
  onEditingComplete: _onPressed,
)),
),
Padding(
  padding: EdgeInsets.all(15.0),
  child: Text(
    "Введите код, который пришёл на Ваш почтовый ящик ${args
      .email}",
    textAlign: TextAlign.center,
    style: TextStyle(
      fontSize: 12.0,
      color: Color.fromRGBO(81, 81, 81, 1),
    ),
  )),
),
ButtonContinue(onPressed: _onPressed)
]));
}
}

class ScreenAuthCodeArguments {
  final String email;

  ScreenAuthCodeArguments(this.email);
}

```

1.20. auth_contacts.dart

```

import 'dart:collection';

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/data/contact.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';

import '../router_auth.dart';
import 'header.dart';

class AuthContactsScreen extends StatefulWidget {

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

static const String routeName = "auth/contacts";

@override
_AuthContactsScreen createState() => _AuthContactsScreen();
}

class _AuthContactsScreen extends State<AuthContactsScreen> {
  final GlobalKey<ScaffoldState>();

  final telegramFieldController = TextEditingController();

  @override
  void initState() {
    super.initState();
  }

  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  @override
  void dispose() {
    telegramFieldController.dispose();

    super.dispose();
  }

  String tgClean(String tg) {
    return tg.trim().replaceAll("@", "");
  }

  @override
  Widget build(BuildContext context) {
    final dialogLoading = DialogLoading(context: this.context);

    void callSnackBar(String text) {
      ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
    }

    void errorSnackBar() {
      callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

```

    final textFieldsKey = GlobalKey<FormState>();

```

```

    void _onButtonClick() {
      if (textFieldsKey.currentState.validate()) {
        UserStorage.instance.user.contacts = HashSet.of({
          Contact.createTelegram(telegramFieldController.text),
        });

        dialogLoading.show();
        Api.setUser(UserStorage.instance.user)
          .then((value) => {
            if (value.isSuccess())
              RouterHelper.routeByUser(context, UserStorage.instance.user)

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        else
            callSnackBar("Произошла ошибка! Попробуйте позже.")
        })
        .timeout(Duration(seconds: 15))
        .catchError(
            (Object object) => {dialogLoading.stop(), errorSnackBar()});
        dialogLoading.stop();
    }
}

bool onTelegramValidate(String input) {
    return input != null && input.length > 2;
}

return Scaffold(
    key: globalKey,
    body: Builder(
        builder: (context) => SingleChildScrollView(
            reverse: true,
            child:
                Column(mainAxisSize: MainAxisSize.max, children: <Widget>[
                    Header(title: "Мои контакты"),
                    Form(
                        key: textFieldsKey,
                        child: Column(
                            children: [
                                Padding(
                                    padding:
                                        EdgeInsets.fromLTRB(30.0, 15.0, 30.0, 10.0),
                                    child: Text(
                                        "Прежде чем продолжить, введите, пожалуйста, свой
реальный Telegram-логин",
                                        textAlign: TextAlign.center,
                                        style: TextStyle(
                                            fontSize: 12.0,
                                            color: Color.fromRGBO(81, 81, 81, 1),
                                        ),
                                    ),
                                ),
                                Padding(
                                    padding: EdgeInsets.fromLTRB(30.0, 0.0, 30.0, 10.0),
                                    child: TextField(
                                        controller: telegramFieldController,
                                        hintText: "@login",
                                        labelText: "Логин Telegram",
                                        validator: onTelegramValidate,
                                        incorrectMessage:
                                            "Введите, пожалуйста, свой настоящий логин.",
                                    ),
                                ),
                            ],
                        ),
                    ),
                ButtonContinue(onPressed: _onButtonClick)
            ]))));
}
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

class TextField extends StatelessWidget {
  static const int MinLengthName = 2;

  final String hintText;
  final String labelText;
  final TextEditingController controller;
  final Function(String value) validator;
  final String incorrectMessage;

  TextField(
    {Key key,
     this.hintText,
     this.labelText,
     this.controller,
     this.validator,
     this.incorrectMessage})
    : super(key: key);

  @override
  Widget build(BuildContext context) {
    return TextFormField(
      keyboardType: TextInputType.name,
      controller: this.controller,
      validator: (input) => validator(input) ? null : incorrectMessage,
      cursorColor: Colors.blueAccent,
      decoration: InputDecoration(
        hintText: hintText,
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(16.0),
          borderSide: BorderSide(
            width: 2,
            color: Colors.blueAccent,
          ),
        ),
        errorBorder: OutlineInputBorder(
          borderRadius: BorderRadius.circular(16.0),
          borderSide: BorderSide(
            width: 2,
            color: Colors.red,
          ),
        ),
        labelText: labelText,
      ),
    );
  }
}

```

1.21. auth_email.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'auth_code.dart';
import 'header.dart';

class AuthEmailScreen extends StatefulWidget {
  static const String routeName = "/auth/email";

  @override
  _AuthEmailScreen createState() => _AuthEmailScreen();
}

class _AuthEmailScreen extends State<AuthEmailScreen> {
  final GlobalKey<ScaffoldState>();
  final GlobalKey<FormState>();

  bool _block;
  DateTime _blockTime;
  String email;
  int count;

  @override
  void initState() {
    _block = false;
    count = 0;
    super.initState();
  }

  @override
  Widget build(BuildContext context) {
    final dialogLoading = DialogLoading(context: this.context);

    void _nextPage() {
      Navigator.of(context).pushReplacementNamed(AuthCodeScreen.routeName,
        arguments: ScreenAuthCodeArguments(email));
    }

    void callSnackBar(String text) {
      ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
    }

    void errorSnackBar() {
      callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    }
  }

  if (textFieldKey.currentState.validate()) {
    if (count >= 2) {
      _blockTime = DateTime.now().add(Duration(minutes: 5));
      _block = true;
      count = 0;
    }

    count++;
    dialogLoading.show();
    Api.sendCode(email.toLowerCase())
      .then((value) =>
        {
          dialogLoading.stop(),
          if (value.statusCode == 200)
            {_nextPage()}
          else
            {
              --count,
              globalKey.currentState.showSnackBar(
                SnackBar(content: Text("Ошибка: ${value.message}")))
            }
        })
      .timeout(Duration(seconds: 15))
      .catchError((Object object) =>
        {
          print(object),
          --count,
          dialogLoading.stop(),
          errorSnackBar()
        })
      );
  }
}

bool _isValidEmailForm(String email) {
  if (email == null || email
    .trim()
    .length < 4) {
    return false;
  }

  return (email.toLowerCase().endsWith("@edu.hse.ru") ||
    email.toLowerCase().endsWith("@hse.ru"));
}

return Scaffold(
  key: globalKey,
  body: Builder(
    builder: (context) =>
      SingleChildScrollView(
        reverse: true,
        child:
          Column(mainAxisSize: MainAxisSize.max, children: <Widget>[
            Header(title: "Моя почта"),

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

Padding(
  padding: EdgeInsets.fromLTRB(30.0, 30.0, 30.0, 10.0),
  child: Form(
    key: textFieldKey,
    child: TextFormField(
      keyboardType: TextInputType.emailAddress,
      cursorColor: Colors.blueAccent,
      decoration: InputDecoration(
        icon: Icon(Icons.email),
        hintText: 'Введите свою корпоративную почту',
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(16.0),
          borderSide: BorderSide(
            width: 2,
            color: Colors.blueAccent,
          ),
        ),
        errorBorder: OutlineInputBorder(
          borderRadius: BorderRadius.circular(16.0),
          borderSide: BorderSide(
            width: 2,
            color: Colors.red,
          ),
        ),
        labelText: 'Моя почта',
      ),
      validator: (input) =>
        _isValidEmailForm(input.trim())
          ? null
          : "Не забудьте @hse.ru или @edu.hse.ru",
      onChanged: (String value) {
        email = value.trim();
      },
      onEditingComplete: _onPressed,
    )),
  ),
  Padding(
    padding: EdgeInsets.all(15.0),
    child: Text(
      "Введите свой корпоративный почтовый ящик, на который
      придёт письмо с кодом подтверждения.",
      textAlign: TextAlign.center,
      style: TextStyle(
        fontSize: 12.0,
        color: Color.fromRGBO(81, 81, 81, 1),
      )),
  ),
  ButtonContinue(onPressed: _onPressed),
]));
}
}

```

1.22. auth_faculty.dart

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/data/degree.dart';
import 'package:hse_coffee/data/faculty.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'package:hse_coffee/ui/widgets/edu_fields.dart';

import '../router_auth.dart';
import 'header.dart';

class AuthFacultyScreen extends StatefulWidget {
  static const String routeName = "/ui/auth/faculty";

  @override
  _AuthFacultyScreen createState() => _AuthFacultyScreen();
}

class _AuthFacultyScreen extends State<AuthFacultyScreen> {
  final GlobalKey<ScaffoldState>();

  final _slider = SliderCourse(state: SliderState(currentSliderValue: 1.0));

  @override
  void initState() {
    super.initState();
  }

  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  @override
  void dispose() {
    super.dispose();
  }

  @override
  Widget build(BuildContext context) {
    EducationFields _educationFields = EducationFields();

    final dialogLoading = DialogLoading(context: this.context);
    void callSnackBar(String text) {
      ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
    }

    void errorSnackBar() {
      callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

double course = _slider.state.currentSliderValue;

if (currentFaculty == null || currentFaculty == Faculty.NONE) {
    callSnackBar("Пожалуйста, выберите свою образовательную программу!");
} else if (currentDegree == null || currentDegree == Degree.NONE) {
    callSnackBar("Пожалуйста, выберите академическую степень!");
} else {
    UserStorage.instance.user.faculty = currentFaculty;
    UserStorage.instance.user.degree = currentDegree;
    UserStorage.instance.user.course = course.toInt();

    dialogLoading.show();

    Api.setUser(UserStorage.instance.user)
        .then((value) => {
            if (value.isSuccess())
                RouterHelper.routeByUser(context, UserStorage.instance.user)
            else
                callSnackBar("Произошла ошибка! Попробуйте позже.")
        })
        .timeout(Duration(seconds: 15))
        .catchError(
            (Object object) => {dialogLoading.stop(), errorSnackBar()});

    dialogLoading.stop();
    return;
}
}

return Scaffold(
    key: GlobalKey,
    body: Builder(
        builder: (context) => SingleChildScrollView(
            reverse: true,
            child:
                Column(mainAxisSize: MainAxisSize.max, children: <Widget>[
                    Header(title: "Образовательная\n\nпрограмма"),
                    Padding(
                        padding: const EdgeInsets.all(8.0),
                        child: _educationFields,
                    ),
                    Padding(
                        padding: EdgeInsets.fromLTRB(45.0, 0.0, 45.0, 10.0),
                        child: Row(
                            mainAxisAlignment: MainAxisAlignment.center,
                            children: <Widget>[Text("Курс: "), _slider],
                        ),
                    ),
                    ButtonContinue(onPressed: _onButtonClick)
                ]))));
}
}

class DropDown<T extends State<StatefulWidget>> extends StatefulWidget {
    final T state;

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

DropDown({@required this.state});

@override
State<StatefulWidget> createState() {
  return state;
}

class SliderCourse extends StatefulWidget {
  final SliderState state;

  SliderCourse({this.state, Key key}) : super(key: key);

  @override
  SliderState createState() => state;
}

class SliderState extends State<SliderCourse> {
  bool isInit = false;
  double currentSliderValue = 1;

  SliderState({this.currentSliderValue});

  @override
  Widget build(BuildContext context) {
    return Slider(
      value: currentSliderValue,
      min: 1,
      max: 6,
      divisions: 5,
      label: currentSliderValue.round().toString() + " курс",
      onChanged: (double value) {
        isInit = true;
        setState(() {
          currentSliderValue = value;
        });
      },
    );
  }
}

```

1.23. auth_gender.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/data/gender.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';

import '../router_auth.dart';
import 'header.dart';

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
class AuthGenderScreen extends StatefulWidget {
  static const String routeName = "/auth/gender";

  @override
  _AuthGenderScreen createState() => _AuthGenderScreen();
}

class _AuthGenderScreen extends State<AuthGenderScreen> {
  @override
  void initState() {
    super.initState();
  }

  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  @override
  void dispose() {
    super.dispose();
  }

  @override
  Widget build(BuildContext context) {
    final dialogLoading = DialogLoading(context: this.context);

    final _toggleButton = ToggleButton();

    bool _isValidInput() {
      if (_toggleButton.buttonState.isSelected.contains(true)) {
        return true;
      }

      callSnackBar("Выберите, пожалуйста, свой пол!");
      return false;
    }

    void errorSnackBar() {
      callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        callSnackBar("Произошла ошибка! Попробуйте позже.")
      })
      .timeout(Duration(seconds: 15))
      .catchError(
        (Object object) => {dialogLoading.stop(), errorSnackBar()});

    dialogLoading.stop();
  }
}

return Scaffold(
  body: Builder(
    builder: (context) => SingleChildScrollView(
      reverse: true,
      child:
        Column(mainAxisSize: MainAxisSize.max, children: <Widget>[
          Header(title: "Мой пол"),
          _toggleButton,
          Padding(
            padding: EdgeInsets.symmetric(
              horizontal: 80.0, vertical: 10.0),
            child: Text(
              "Прежде чем продолжить, выберите, пожалуйста, свой пол.",
              textAlign: TextAlign.center,
              style: TextStyle(
                fontSize: 12.0,
                color: Color.fromRGBO(81, 81, 81, 1),
              ),
            ),
          ),
          ButtonContinue(onPressed: _onButtonClick),
        ]))));
}

class ToggleButton extends StatefulWidget {
  final _ToggleButtonState buttonState = _ToggleButtonState();
  final Function onPressed;

  ToggleButton({Key key, this.onPressed}) : super(key: key);

  @override
  State<ToggleButton> createState() {
    return buttonState;
  }
}

class _ToggleButtonState extends State {
  List<bool> isSelected = <bool>[false, false];
  static const String FirstButtonText = "Мужской";
  static const String SecondButtonText = "Женский";

  _ToggleButtonState();

  void onClicked(int index) {
    if (isSelected[index]) return;

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

setState(() {
  bool state = isSelected[index];
  isSelected[index] = !state;
  for (int i = 0; i < isSelected.length; i++) {
    if (i != index) {
      isSelected[i] = state;
    }
  }
});
}

@override
Widget build(BuildContext context) {
  return Column(children: <Widget>[
    Padding(
      padding: EdgeInsets.fromLTRB(30.0, 50.0, 30.0, 10.0),
      child: TButton(
        FirstButtonText,
        () => onClicked(0),
        isClicked: isSelected[0],
      )),
    Padding(
      padding: EdgeInsets.fromLTRB(30.0, 0.0, 30.0, 30.0),
      child: TButton(
        SecondButtonText,
        () => onClicked(1),
        isClicked: isSelected[1],
      )),
  ]);
}

class TButton extends StatelessWidget {
  final String _text;
  final Function _onPressed;
  final bool isClicked;

  TButton(this._text, this._onPressed, {this.isClicked});

  @override
  Widget build(BuildContext context) {
    return new SizedBox(
      width: 160.0,
      height: 50.0,
      child: isClicked
        ? _ClickedButton(_text, _onPressed)
        : _NotClickedButton(_text, _onPressed),
    );
  }
}

class _ClickedButton extends StatelessWidget {
  final String _text;
  final Function _onPressed;

  _ClickedButton(this._text, this._onPressed);

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

@override
Widget build(BuildContext context) {
  return OutlinedButton(
    child: Text(
      _text,
      style: TextStyle(fontSize: 16.0),
    ),
    style: OutlinedButton.styleFrom(
      primary: Color.fromRGBO(20, 92, 212, 1),
      side: BorderSide(color: Color.fromRGBO(20, 102, 212, 1), width: 2),
      shape: const RoundedRectangleBorder(
        borderRadius: BorderRadius.all(Radius.circular(32))),
    ),
    onPressed: () {
      _onPressed();
    },
  );
}

class _NotClickedButton extends StatelessWidget {
  final String _text;
  final Function _onPressed;

  _NotClickedButton(this._text, this._onPressed);

  @override
  Widget build(BuildContext context) {
    return OutlinedButton(
      child: Text(
        _text,
        style: TextStyle(fontSize: 16.0),
      ),
      style: OutlinedButton.styleFrom(
        primary: Color.fromRGBO(81, 81, 81, 1),
        backgroundColor: Color.fromRGBO(245, 245, 245, 1),
        shape: const RoundedRectangleBorder(
          borderRadius: BorderRadius.all(Radius.circular(32))),
      ),
      onPressed: () {
        _onPressed();
      },
    );
  }
}

```

1.24. auth_name.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

import 'header.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import '../router_auth.dart';

class AuthNameScreen extends StatefulWidget {
  static const String routeName = "/auth/name";

  @override
  _AuthNameScreen createState() => _AuthNameScreen();
}

class _AuthNameScreen extends State<AuthNameScreen> {
  final GlobalKey<ScaffoldState>();

  final firstNameFieldController = TextEditingController();
  final secondNameFieldController = TextEditingController();

  @override
  void initState() {
    super.initState();
  }

  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  @override
  void dispose() {
    firstNameFieldController.dispose();
    secondNameFieldController.dispose();

    super.dispose();
  }

  void errorSnackBar() {
    callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

```

  @override
  Widget build(BuildContext context) {
    final dialogLoading = DialogLoading(context: this.context);

    final textFieldsKey = GlobalKey<FormState>();

    void _onButtonClick() {
      if (textFieldsKey.currentState.validate()) {
        UserStorage.instance.user.firstName = firstNameFieldController.text;
        UserStorage.instance.user.lastName = secondNameFieldController.text;

        dialogLoading.show();
        Api.setUser(UserStorage.instance.user)
          .then((value) => {
            if (value.isSuccess())
              RouterHelper.routeByUser(context, UserStorage.instance.user)
            else

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

        callSnackBar("Произошла ошибка! Попробуйте позже.")
    })
    .timeout(Duration(seconds: 15))
    .catchError(
        (Object object) => {dialogLoading.stop(), errorSnackBar()});
    dialogLoading.stop();
}
}

return Scaffold(
    key: globalKey,
    body: Builder(
        builder: (context) => SingleChildScrollView(
            reverse: true,
            child:
                Column(mainAxisSize: MainAxisSize.max, children: <Widget>[
                    Header(title: "Меня зовут"),
                    Form(
                        key: textFieldsKey,
                        child: Column(
                            children: [
                                Padding(
                                    padding:
                                        EdgeInsets.fromLTRB(30.0, 30.0, 30.0, 10.0),
                                    child: TextField(
                                        controller: firstNameFieldController,
                                        hintText: "Введите своё имя",
                                        labelText: "Имя",
                                    ),
                                ),
                                Padding(
                                    padding: EdgeInsets.fromLTRB(30.0, 0.0, 30.0, 10.0),
                                    child: TextField(
                                        controller: secondNameFieldController,
                                        hintText: "Введите свою фамилию",
                                        labelText: "Фамилия"),
                                )
                            ],
                        )),
                    ButtonContinue(onPressed: _onButtonClick)
                ]))));
}
}

class TextField extends StatelessWidget {
    static const int MinLengthName = 2;

    final String hintText;
    final String labelText;
    final TextEditingController controller;

    TextField({Key key, this.hintText, this.labelText, this.controller})
        : super(key: key);

    bool _isValidName(String text) {
        return text != null && text.length > MinLengthName;
    }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

}

@override
Widget build(BuildContext context) {
  return TextFormField(
    keyboardType: TextInputType.name,
    controller: this.controller,
    validator: (input) =>
      _isValidName(input) ? null : "Пожалуйста, заполните корректно поле!",
    cursorColor: Colors.blueAccent,
    decoration: InputDecoration(
      hintText: hintText,
      border: OutlineInputBorder(
        borderRadius: BorderRadius.circular(16.0),
        borderSide: BorderSide(
          width: 2,
          color: Colors.blueAccent,
        ),
      ),
      errorBorder: OutlineInputBorder(
        borderRadius: BorderRadius.circular(16.0),
        borderSide: BorderSide(
          width: 2,
          color: Colors.red,
        ),
      ),
    ),
    labelText: labelText,
  );
}
}

```

1.25. auth_photo.dart

```

import 'dart:io';

import 'package:cached_network_image/cached_network_image.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/widgets.dart';
import 'package:gradient_widgets/gradient_widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'package:image_cropper/image_cropper.dart';
import 'package:image_picker/image_picker.dart';

import '../router_auth.dart';
import 'header.dart';

class AuthPhotoScreen extends StatefulWidget {
  static const String routeName = "/auth/photo";

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

@override
_AuthPhotoScreen createState() => _AuthPhotoScreen();
}

class _AuthPhotoScreen extends State<AuthPhotoScreen> {
  File _image;
  final picker = ImagePicker();

  @override
  void initState() {
    super.initState();
  }

  @override
  void dispose() {
    super.dispose();
  }

  final GlobalKey<ScaffoldState>();

  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  Future _sendImage() {
    return Api.setPhoto(UserStorage.instance.user, _image)
      .then((value) => {
        if (value.isSuccess())
        {
          Api.getUser()
            .then((value) => {
              UserStorage.instance.user = value.getData(),
              setState(() {}),
              RouterHelper.routeByUser(context, value.getData())
            })
            .timeout(Duration(seconds: 15))
        }
        else
        {callSnackBar("К сожалению, не удалось загрузить фотографию.")}
      })
      .timeout(Duration(seconds: 25));
  }

  Future getImage(ImageSource source) async {
    final pickedFile = await picker.getImage(source: source);
    if (pickedFile != null) {
      _image = await ImageCropper.cropImage(
        sourcePath: pickedFile.path,
        aspectRatioPresets: [
          CropAspectRatioPreset.square,
          CropAspectRatioPreset.ratio4x3,
          CropAspectRatioPreset.original
        ],
        maxWidth: 800);
    }
  }
}

```

```

setState(() {

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    //
  });
  var dialogLoading = DialogLoading(context: context);
  dialogLoading.show();
  _sendImage().then((value) => dialogLoading.stop());
}
}

void _showPickOptionsDialog(BuildContext context) {
  showDialog(
    context: context,
    builder: (context) => AlertDialog(
      content: Column(
        mainAxisAlignment: MainAxisAlignment.min,
        children: <Widget>[
          ListTile(
            title: Text("Выбрать из галереи"),
            onTap: () {
              getImage(ImageSource.gallery);
            },
          ),
          ListTile(
            title: Text("Сделать фотографию"),
            onTap: () {
              getImage(ImageSource.camera);
            },
          ),
        ],
      ),
    ),
  );
}

@override
Widget build(BuildContext context) {
  void _onButtonClick() {
    var user = UserStorage.instance.user;
    if (user.photoUri.contains(user.email)) {
      RouterHelper.routeByUser(context, user);
    } else {
      callSnackBar("Загрузите свою фотографию, это важно!");
    }
  }

  return Scaffold(
    key: globalKey,
    body: Builder(
      builder: (context) =>
        Column(mainAxisSize: MainAxisSize.max, children: <Widget>[
          Header(
            title: "Фотография",
            image: CircleAvatar(
              radius: 80,
              child: _image == null
                ? ClipRRect(
                  borderRadius: BorderRadius.circular(80),

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        child: CachedNetworkImage(
          imageUrl: Api.getImageUrlByUser(
            UserStorage.instance.user),
          placeholder: (context, url) =>
            new CircularProgressIndicator(),
          errorWidget: (context, url, dynamic) =>
            new Icon(Icons.error),
        ),
      ),
      : null,
      backgroundImage:
        _image != null ? FileImage(_image) : null,
    )),
    Padding(
      padding: EdgeInsets.fromLTRB(15, 15, 15, 5),
      child: Text(
        "Загрузите, пожалуйста, свою фотографию. Вашему будущему
        собеседнику будет приятно!",
        style: TextStyle(color: Colors.grey),
        textAlign: TextAlign.center,
      )),
    GradientButton(
      child: Text("Загрузить фотографию",
        style: TextStyle(fontSize: 16.0)),
      callback: () {
        _showPickOptionsDialog(context);
      },
      increaseWidthBy: 150.0,
      increaseHeightBy: 10,
      gradient: LinearGradient(
        begin: Alignment.topLeft,
        end: Alignment.bottomRight,
        colors: [
          Color.fromRGBO(0, 82, 212, 1),
          Color.fromRGBO(49, 94, 252, 1),
          Color.fromRGBO(111, 177, 252, 1)
        ],
      ),
      shadowColor:
        Gradients.backToFuture.colors.last.withOpacity(0.25),
    ),
    Expanded(
      child: Center(
        child: ButtonContinue(onPressed: _onButtonClick)))
    ]));
  }
}

```

1.26. header.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

class Header extends StatelessWidget {
  Header({Key key, this.title, this.image}) : super(key: key);

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

final String title;
final CircleAvatar image;

@override
Widget build(BuildContext context) {
  return Stack(
    alignment: Alignment.center,
    children: <Widget>[
      Image.asset("images/header/cloud.png"),
      Transform.rotate(
        angle: 0,
        child: Container(
          decoration: new BoxDecoration(
            color: Color.fromRGBO(30, 51, 123, 0.5),
            borderRadius: BorderRadius.circular(50)),
          child: SizedBox(height: 175, width: 175))),
      Transform.rotate(
        angle: 90,
        child: Container(
          decoration: new BoxDecoration(
            color: Color.fromRGBO(30, 51, 123, 0.5),
            borderRadius: BorderRadius.circular(50)),
          child: SizedBox(height: 125, width: 125))),
      Transform.rotate(
        angle: 90,
        child: Container(
          decoration: new BoxDecoration(
            color: Color.fromRGBO(30, 51, 123, 0.5),
            borderRadius: BorderRadius.circular(50)),
          child: SizedBox(height: 75, width: 75))),
      Padding(
        padding: EdgeInsets.symmetric(horizontal: 80),
        child: image == null
          ? Text(title,
              textAlign: TextAlign.center,
              style: TextStyle(
                fontFamily: 'Nunito',
                color: Colors.white,
                fontSize: 24,
                fontWeight: FontWeight.bold))
          : image,
      ),
    ],
  );
}

```

1.27. home.dart

```

import 'dart:async';
import 'dart:core';

import 'package:flutter/material.dart';
import 'package:hse_coffee/business_logic/api.dart';

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/data/meet.dart';
import 'package:hse_coffee/data/meet_status.dart';
import 'package:hse_coffee/ui/home/home_meets.dart';
import 'package:hse_coffee/ui/home/home_person_info.dart';

import 'home_cabinet.dart';
import 'home_find_start.dart';
import 'home_loading.dart';

// Такое же виджет, как и SplashScreen, только передаём ему ещё и заголовок
class HomeScreen extends StatefulWidget {
  static const String routeName = "/home";

  HomeScreen({Key key, this.title}) : super(key: key);
  final String title;

  @override
  _HomeScreenState createState() => _HomeScreenState();
}

// Формирование состояния виджета
class _HomeScreenState extends State<HomeScreen> {
  int _selectedIndex = 0;

  _HomeScreenState() {
    Timer(Duration(seconds: 3), () {
      _updByMeet(null);
    });

    wait();
  }

  void wait() {
    Timer.periodic(Duration(seconds: 5), (timer) {
      _updByMeet(timer);
    });
  }

  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  void callErrorSnackBar() {
    callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        Timer(
            Duration(
                milliseconds:
                    value.getData().expiresDate.microsecond -
                    DateTime.now().millisecond), () {
                wait();
            })
        }
    }
}

    })
    .timeout(Duration(seconds: 15))
    .catchError((obj) => print(obj.toString()));
}

final List<Widget> _widgetOptions = <Widget>[
    HomeLoadingScreen(),
    HomeMeetsScreen(),
    HomeCabinetScreen()
];

Widget getScreenByMeet(Meet meet, MeetStatus meetStatus) {
    if (meetStatus == MeetStatus.NONE || meetStatus == MeetStatus.FINISHED) {
        return HomeFindScreen(_navigateByMeetStatus);
    } else if (meetStatus == MeetStatus.SEARCH) {
        return HomeLoadingScreen(
            withCancel: true, navigatorFunc: _navigateByMeetStatus);
    } else if (meetStatus == MeetStatus.ACTIVE && meet != null) {
        var user = UserStorage().user.email == meet.user1.email
            ? meet.user2
            : meet.user1;
        return HomePersonScreen(user, withBack: false);
    }

    return HomeLoadingScreen();
}

void _navigateByMeet(Meet meet) {
    _widgetOptions[0] = getScreenByMeet(meet, meet.meetStatus);

    if (_selectedIndex == 0) {
        _onItemTapped(0);
    }
}

void _navigateByMeetStatus(MeetStatus meetStatus) {
    _widgetOptions[0] = getScreenByMeet(null, meetStatus);

    if (_selectedIndex == 0) {
        _onItemTapped(0);
    }
}

void _onItemTapped(int index) {
    setState(() {
        _selectedIndex = index;
    });
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

}

@override
Widget build(BuildContext context) {
  return Scaffold(
    body: Center(
      child: _widgetOptions.elementAt(_selectedIndex),
    ),
    bottomNavigationBar: BottomNavigationBar(
      type: BottomNavigationBarType.fixed,
      items: const <BottomNavigationBarItem>[
        BottomNavigationBarItem(
          icon: Icon(Icons.find_replace),
          label: 'Поиск',
        ),
        BottomNavigationBarItem(
          icon: Icon(Icons.history),
          label: 'История',
        ),
        BottomNavigationBarItem(
          icon: Icon(Icons.person),
          label: 'Кабинет',
        ),
      ],
      currentIndex: _selectedIndex,
      selectedItemColor: Color.fromRGBO(67, 100, 248, 0.98),
      onTap: _onItemTapped,
    ),
  );
}

```

1.28. home_cabinet.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/rendering.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';

import 'home_cabinet_header.dart';
import 'home_cabinet_settings.dart';

class HomeCabinetScreen extends StatefulWidget {
  static const String routeName = "/home/1k";

  @override
  _HomeCabinetScreen createState() => _HomeCabinetScreen();
}

class _HomeCabinetScreen extends State<HomeCabinetScreen> {
  Header _header = Header(UserStorage.instance.user);
  Settings _settings = Settings(UserStorage.instance.user);
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
@override
void initState() {
  super.initState();
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    floatingActionButton: Padding(
      padding: EdgeInsets.all(10),
      child: FloatingActionButton(
        backgroundColor: Colors.blueAccent,
        child: Icon(Icons.assignment_turned_in_outlined),
        onPressed: () {
          if (_settings.floatingButtonPress != null)
            _settings.floatingButtonPress();
        },
      )),
    floatingActionButtonLocation: FloatingActionButtonLocation.endDocked,
    body: Builder(
      builder: (context) => SingleChildScrollView(
        child: Column(
          crossAxisAlignment: CrossAxisAlignment.stretch,
          mainAxisAlignment: MainAxisAlignment.min,
          children: <Widget>[_header, _settings],
        ),
      )),
  );
}
```

1.29. home_cabinet_header.dart

```
import 'dart:io';

import 'package:cached_network_image/cached_network_image.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/data/user.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'package:image_cropper/image_cropper.dart';
import 'package:image_picker/image_picker.dart';

class HeaderState extends State<Header> {
  User currentUser;

  HeaderState({this.currentUser});

  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  void callErrorSnackBar() {
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

```

}

Future _sendImage() {
  return Api.setPhoto(UserStorage.instance.user, _image).then((value) => {
    if (value.isSuccess())
    {
      Api.getUser().then((value) => {
        if (value.isSuccess())
        {
          UserStorage.instance.user = value.getData(),
          currentUser = value.getData(),
          Api.updateImage(),
          setState(() {}),
        }
      })
    }
    else
    {callSnackBar("К сожалению, не удалось загрузить фотографию.")}
  });
}

File _image;
final picker = ImagePicker();

Future getImage(ImageSource source) async {
  final pickedFile = await picker.getImage(source: source);
  if (pickedFile != null) {
    _image = await ImageCropper.cropImage(
      sourcePath: pickedFile.path,
      aspectRatioPresets: [
        CropAspectRatioPreset.square,
        CropAspectRatioPreset.ratio4x3,
        CropAspectRatioPreset.original
      ],
      maxWidth: 800);

    setState(() {
      //
    });
    var dialogLoading = DialogLoading(context: context);
    dialogLoading.show();
    _sendImage().then((value) => dialogLoading.stop());
  }
}

void showPickOptionsDialog(BuildContext context) {
  showDialog(
    context: context,
    builder: (context) => AlertDialog(
      content: Column(
        mainAxisAlignment: MainAxisAlignment.min,
        children: <Widget>[
          ListTile(
            title: Text("Выбрать из галереи"),
            onTap: () {

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        getImage(ImageSource.gallery);
    },
),
ListTile(
    title: Text("Сделать фотографию"),
    onTap: () {
        getImage(ImageSource.camera);
    },
),
],
),
),
);
}

void onTap() {
    showPickOptionsDialog(context);
    setState(() {});
}

@override
Widget build(BuildContext context) {
    return Stack(
        alignment: Alignment.center,
        children: <Widget>[
            Image.asset("images/header/cloud.png"),
            Padding(
                padding: EdgeInsets.symmetric(horizontal: 80),
                child: new GestureDetector(
                    onTap: () => onTap(),
                    child: Stack(
                        children: <Widget>[
                            new Container(
                                margin: EdgeInsets.only(top: 30, bottom: 15),
                                width: 220.0,
                                height: 220.0,
                                decoration: new BoxDecoration(
                                    shape: BoxShape.circle,
                                    image: new DecorationImage(
                                        fit: BoxFit.fill,
                                        image: new CachedNetworkImageProvider(
                                            Api.getImageUrlByUser(currentUser),
                                        )),
                                )),
                            new Container(
                                margin: EdgeInsets.only(top: 30, bottom: 15),
                                width: 220.0,
                                height: 220.0,
                                child: Icon(Icons.add, color: Colors.white54, size: 64))
                        ],
                    )),
        ],
    );
}
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

class Header extends StatefulWidget {
  final User _currentUser;

  Header(this._currentUser, {Key key}) : super(key: key);

  @override
  State<StatefulWidget> createState() {
    return HeaderState(currentUser: _currentUser);
  }
}

```

1.30. home_cabinet_settings.dart

```

import 'dart:async';

import 'package:flutter/material.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/data/contact.dart';
import 'package:hse_coffee/data/gender.dart';
import 'package:hse_coffee/data/user.dart';
import 'package:hse_coffee/ui/auth/auth_faculty.dart';
import 'package:hse_coffee/ui/widgets/capsule_widget.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'package:hse_coffee/ui/widgets/edu_fields.dart';
import 'package:hse_coffee/ui/widgets/text_field_wrapper.dart';
import 'package:hse_coffee/ui/widgets/toggle_button_gender.dart';

class Settings extends StatelessWidget {
  final GlobalKey<FormState>();

  Function floatingButtonPress;
  TextEditingController _firstNameFieldController;
  TextEditingController _aboutFieldController;
  TextEditingController _lastNameFieldController;
  TextEditingController _vkFieldController;
  TextEditingController _tgFieldController;
  TextEditingController _instFieldController;

  EducationFields _educationFields = EducationFields();

  SliderCourse _slider;
  ToggleButtonGender _toggleButton;

  final User _currentUser;

  Settings(this._currentUser) {
    // Init elements by user instance
    _slider = SliderCourse(
      state: SliderState(currentSliderValue: _currentUser.course.toDouble()));

    _educationFields.state.degree = _currentUser.degree;
    _educationFields.state.faculty = _currentUser.faculty;
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

_tgFieldController =
  TextEditingController(text: _currentUser.getTelegram());
_vkFieldController = TextEditingController(text: _currentUser.getVk());
_instFieldController = TextEditingController(text: _currentUser.getInst());

_lastNameFieldController =
  TextEditingController(text: _currentUser.lastName);

_firstNameFieldController =
  TextEditingController(text: _currentUser.firstName);

_aboutFieldController = TextEditingController(text: _currentUser.aboutMe);

var male = _currentUser.gender == Gender.MALE;
var female = _currentUser.gender == Gender.FEMALE;

_toggleButton = ToggleButtonGender(
  buttonState: ToggleButtonGenderState(List.of({male, female})));
}

@override
Widget build(BuildContext context) {
  void callSnackBar(String text) {
    ScaffoldMessenger.of(context).showSnackBar(SnackBar(content: Text(text)));
  }

  void callErrorSnackBar() {
    callSnackBar('Ошибка! Попробуйте повторить запрос позже.');
```

```

  bool isContinue = true;

```

```

  void _onPressed() {
    if (!isContinue) {
      callSnackBar("Не спешите!");
      return;
    }
  }

```

```

  isContinue = false;
  Timer(Duration(seconds: 3), () {
    isContinue = true;
  });

```

```

  if (nameKey.currentState.validate()) {
    User newUser = getUserByUi();
  }

```

```

  DialogLoading dialogLoading = DialogLoading(context: context);

```

```

  dialogLoading.show();
  Api.setUser(newUser)
    .then((value) => {
      dialogLoading.stop(),
      if (value.isSuccess())
        UserStorage.instance.user = newUser
      else
        callErrorSnackBar()
    })

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    })
    .catchError(
      (object) => {callErrorSnackBar(), dialogLoading.stop()});
  }
}

floatingButtonPress = _onPressed;

return Column(children: <Widget>[
  Form(
    key: nameKey,
    child: Column(
      children: [
        CapsuleWidget(
          label: 'О себе'.toUpperCase(),
          ribbonHeight: 12,
        ),
        Padding(
          padding: EdgeInsets.fromLTRB(30.0, 0.0, 30.0, 0.0),
          child: TextFieldWrapper(
            textInputType: TextInputType.multiline,
            controller: _aboutFieldController,
            hintText: "Укажите информацию о себе",
            labelText: "Мои хобби, интересы, увлечения",
            maxLines: 4,
            minLengthName: -1,
            maxLengthName: 100,
          ),
        ),
        const Divider(indent: 20),
        CapsuleWidget(
          label: 'Мои данные'.toUpperCase(),
          ribbonHeight: 12,
        ),
        Padding(
          padding: EdgeInsets.fromLTRB(30.0, 0.0, 30.0, 0.0),
          child: TextFieldWrapper(
            controller: _firstNameFieldController,
            hintText: "Введите своё имя",
            labelText: "Имя",
          ),
        ),
        Padding(
          padding: EdgeInsets.fromLTRB(30.0, 5.0, 30.0, 0.0),
          child: TextFieldWrapper(
            controller: _lastNameFieldController,
            hintText: "Введите свою фамилию",
            labelText: "Фамилия",
          ),
        ),
        Padding(padding: EdgeInsets.all(7.5), child: _toggleButton),
        const Divider(indent: 20),
        CapsuleWidget(
          label: 'Мои контакты'.toUpperCase(),
          ribbonHeight: 12,
        ),
        Column(

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

children: [
  Padding(
    padding: EdgeInsets.fromLTRB(30.0, 0.0, 30.0, 0.0),
    child: TextFieldWrapper(
      controller: _tgFieldController,
      hintText: "Введите свой Telegram-логин",
      iconPath: "images/icons/tg.png",
      labelText: "Telegram"),
    ),
  Padding(
    padding: EdgeInsets.fromLTRB(30.0, 7.0, 30.0, 0.0),
    child: TextFieldWrapper(
      controller: _vkFieldController,
      ignoreValidate: true,
      hintText: "Введите свой VK-логин",
      labelText: "VK",
      iconPath: "images/icons/vk.png"),
    ),
  Padding(
    padding: EdgeInsets.fromLTRB(30.0, 7.0, 30.0, 0.0),
    child: TextFieldWrapper(
      controller: _instFieldController,
      ignoreValidate: true,
      hintText: "Введите свой Instagram",
      iconPath: "images/icons/inst.png",
      labelText: "Instagram"),
    ),
],
),
],
)),
const Divider(indent: 20),
CapsuleWidget(
  label: 'Обучение'.toUpperCase(),
  ribbonHeight: 12,
),
_educationFields,
Padding(
  padding: EdgeInsets.fromLTRB(45.0, 0.0, 45.0, 10.0),
  child: Row(
    mainAxisAlignment: MainAxisAlignment.center,
    children: <Widget>[Text("Курс: "), _slider],
  ),
),
]);
}

```

```

User getUserByUi() {
  User newUser = UserStorage.instance.user;

  newUser.firstName = _firstNameFieldController.text;
  newUser.lastName = _lastNameFieldController.text;
  newUser.aboutMe = _aboutFieldController.text;

  newUser.contacts = Set.of({
    Contact.createVk(_vkFieldController.text),

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

    Contact.createInstagram(_instFieldController.text),
    Contact.createTelegram(_tgFieldController.text)
  });

  List<bool> isSelected = _toggleButton.buttonState.isSelected;
  if (isSelected.length == 2) {
    isSelected[0]
      ? newUser.gender = Gender.MALE
      : newUser.gender = Gender.FEMALE;
  } else {
    newUser.gender = Gender.NONE;
  }

  newUser.degree = _educationFields.state.degree;
  newUser.faculty = _educationFields.state.faculty;
  newUser.course = _slider.state.currentSliderValue.toInt();
  return newUser;
}
}

```

1.31. home_find_start.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/data/degree.dart';
import 'package:hse_coffee/data/faculty.dart';
import 'package:hse_coffee/data/meet_status.dart';
import 'package:hse_coffee/data/search_params.dart';
import 'package:hse_coffee/ui/auth/header.dart';
import 'package:hse_coffee/ui/widgets/auth_faculty_items.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'package:hse_coffee/ui/widgets/toggle_button_gender.dart';
import 'package:smart_select/smart_select.dart';

class HomeFindScreen extends StatefulWidget {
  final Function(MeetStatus meetStatus) navigatorFunc;

  HomeFindScreen(this.navigatorFunc);

  static const String routeName = "/home/find";

  @override
  _HomeFindScreen createState() => _HomeFindScreen(navigatorFunc);
}

class _HomeFindScreen extends State<HomeFindScreen> {
  final Function(MeetStatus meetStatus) navigatorFunc;

  _HomeFindScreen(this.navigatorFunc);

  @override

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

void initState() {
    super.initState();
}

@override
Widget build(BuildContext context) {
    return Scaffold(
        body: Builder(
            builder: (context) => Column(
                children: [
                    Stack(
                        children: [
                            Header(title: "Поиск собеседника"),
                        ],
                    ),
                    Expanded(
                        child: ButtonContinue(
                            textButton: "Найти встречу",
                            onPressed: () => _settingModalBottomSheet(context))
                    ],
                ));
}

void _settingModalBottomSheet(context) {
    final featuresModalWidget = FeaturesModalConfirm();
    final rangeWidget = RangeWidget(_RangeWidgetState(new RangeValues(1, 6)),
        min: 1, max: 6, divisions: 5);
    final _toggleButtonWidget = ToggleButtonGender(
        buttonState: ToggleButtonGenderState([true, true]),
        onlySingleChose: false);

    SearchParams getSearchParams() {
        var genders = _toggleButtonWidget.buttonState.getGenders();
        var faculties = featuresModalWidget.state.faculties;
        var degrees = featuresModalWidget.state.degrees;

        var minCourse =
            rangeWidget.rangeWidgetState.currentRangeValues.start.toInt();
        var maxCourse =
            rangeWidget.rangeWidgetState.currentRangeValues.end.toInt();

        return SearchParams(genders.toSet(), faculties.toSet(), degrees.toSet(),
            minCourse, maxCourse);
    }

    void callSnackBar(String text, BuildContext context) {
        ScaffoldMessenger.of(context).showSnackBar(
            SnackBar(behavior: SnackBarBehavior.floating, content: Text(text)));
    }

    void callErrorSnackBar(BuildContext context) {
        callSnackBar('Ошибка! Попробуйте повторить запрос позже.', context);
    }

    bool validate(SearchParams searchParams) {
        print(searchParams.toJson());
    }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    if (searchParams.faculties.isEmpty ||
        searchParams.genders.isEmpty ||
        searchParams.degrees.isEmpty) return false;

    return true;
}

void startFind(BuildContext context) {
    var searchParams = getSearchParams();

    if (validate(searchParams)) {
        DialogLoading dialogLoading = DialogLoading(context: context);
        dialogLoading.show();
        Api.search(searchParams)
            .then((value) => {
                dialogLoading.stop(),
                if (value.isSuccess())
                    {navigatorFunc(value.getData())}
                else
                {
                    callErrorSnackBar(context),
                }
            })
            .timeout(Duration(seconds: 10))
            .catchError(
                (obj) => {dialogLoading.stop(), callErrorSnackBar(context)});
    } else {
        callSnackBar('Пожалуйста, выберите все параметры поиска!', context);
    }
}

showModalBottomSheet(
    context: context,
    shape: RoundedRectangleBorder(
        borderRadius: BorderRadius.vertical(top: Radius.circular(25.0)),
    ),
    clipBehavior: Clip.antiAliasWithSaveLayer,
    isScrollControlled: true,
    builder: (BuildContext bc) {
        return Container(
            child: new Wrap(
                children: <Widget>[
                    Padding(
                        padding: const EdgeInsets.all(8.0),
                        child: Center(
                            child: Text(
                                "Критерии поиска",
                                style: TextStyle(fontSize: 18, fontFamily: "Nunito"),
                                textAlign: TextAlign.center,
                            ),
                        ),
                    ),
                    const Divider(indent: 20),
                    SeparatorText("Пол"),
                    Padding(

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

padding: EdgeInsets.all(7.5), child: _toggleButtonWidget),
const Divider(indent: 20),
SeparatorText("Курс"),
Padding(
padding: const EdgeInsets.symmetric(horizontal: 32),
child: rangeWidget,
),
featuresModalWidget,
Padding(
padding: const EdgeInsets.all(8.0),
child: ButtonContinue(
textButton: "Поиск",
onPressed: () =>
{Navigator.pop(context), startFind(context)}),
),
),
),
);
});
}
}

```

```

class SeparatorText extends StatelessWidget {
final String text;

SeparatorText(this.text);

@override
Widget build(BuildContext context) {
return Center(
child: Text(
text,
style: TextStyle(fontSize: 14, fontFamily: "Nunito"),
textAlign: TextAlign.center,
),
);
}
}

```

```

class RangeWidget extends StatefulWidget {
final double min;
final double max;
final int divisions;

final _RangeWidgetState rangeWidgetState;

RangeWidget(this.rangeWidgetState,
{Key key, this.min: 1, this.max: 6, this.divisions: 5})
: super(key: key);

@override
_RangeWidgetState createState() => rangeWidgetState;
}

```

```

class _RangeWidgetState extends State<RangeWidget> {
RangeValues currentRangeValues;

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

_RangeWidgetState(this.currentRangeValues);

@override
Widget build(BuildContext context) {
  return RangeSlider(
    values: currentRangeValues,
    min: widget.min,
    max: widget.max,
    divisions: widget.divisions,
    labels: RangeLabels(
      currentRangeValues.start.round().toString(),
      currentRangeValues.end.round().toString(),
    ),
    onChanged: (RangeValues values) {
      setState(() {
        currentRangeValues = values;
      });
    },
  );
}

class FeaturesModalConfirm extends StatefulWidget {
  final state = _FeaturesModalConfirmState();

  @override
  _FeaturesModalConfirmState createState() => state;
}

class _FeaturesModalConfirmState extends State<FeaturesModalConfirm> {
  var faculties = <Faculty>[];
  var degrees = <Degree>[];

  @override
  Widget build(BuildContext context) {
    return Column(children: <Widget>[
      SmartSelect<Faculty>.multiple(
        title: 'Образовательные программы',
        value: faculties,
        onChange: (selected) => setState(() => faculties = selected.value),
        choiceItems: DataRes.choicesFaculties,
        modalType: S2ModalType.bottomSheet,
        modalConfirm: true,
        modalValidation: (value) {
          return value.length > 0 ? null : 'Выберите образовательные программы';
        },
        modalHeaderStyle: S2ModalHeaderStyle(
          backgroundColor: Theme.of(context).cardColor,
        ),
        modalActionsBuilder: (context, state) {
          return <Widget>[
            Padding(
              padding: const EdgeInsets.only(right: 13),
              child: state.choiceSelector,
            )
          ]
        }
      )
    ])
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

];
},
modalDividerBuilder: (context, state) {
  return const Divider(height: 1);
},
modalFooterBuilder: (context, state) {
  return Container(
    padding: const EdgeInsets.symmetric(
      horizontal: 12.0,
      vertical: 7.0,
    ),
    child: Row(
      children: <Widget>[
        const Spacer(),
        FlatButton(
          child: const Text('Cancel'),
          onPressed: () => state.closeModal(confirmed: false),
        ),
        const SizedBox(width: 5),
        FlatButton(
          child: Text('OK (${state.changes.value.length})'),
          color: Theme.of(context).primaryColor,
          textColor: Colors.white,
          onPressed: state.changes.value.isNotEmpty
            ? () => state.closeModal(confirmed: true)
            : null,
        ),
      ],
    ),
  );
},
const Divider(indent: 20),
SmartSelect<Degree>.multiple(
  title: 'Степень образования',
  value: degrees,
  onChange: (selected) => setState(() => degrees = selected.value),
  choiceItems: DataRes.choicesDegrees,
  modalType: S2ModalType.bottomSheet,
  modalConfirm: true,
  modalValidation: (value) {
    return value.length > 0 ? null : 'Выберите степень образования';
  },
  modalHeaderStyle: S2ModalHeaderStyle(
    backgroundColor: Theme.of(context).cardColor,
  ),
  modalActionsBuilder: (context, state) {
    return <Widget>[
      Padding(
        padding: const EdgeInsets.only(right: 13),
        child: state.choiceSelector,
      ),
    ];
  },
  modalDividerBuilder: (context, state) {
    return const Divider(height: 1);
  },

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```
},
modalFooterBuilder: (context, state) {
  return Container(
    padding: const EdgeInsets.symmetric(
      horizontal: 12.0,
      vertical: 7.0,
    ),
    child: Row(
      children: <Widget>[
        const Spacer(),
        FlatButton(
          child: const Text('Cancel'),
          onPressed: () => state.closeModal(confirmed: false),
        ),
        const SizedBox(width: 5),
        FlatButton(
          child: Text('OK (${state.changes.value.length})'),
          color: Theme.of(context).primaryColor,
          textColor: Colors.white,
          onPressed: state.changes.value.isNotEmpty
            ? () => state.closeModal(confirmed: true)
            : null,
        ),
      ],
    ),
  );
},
);
},
];
}
}
```

1.32. home_loading.dart

```
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/rendering.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/data/meet_status.dart';
import 'package:hse_coffee/ui/widgets/dialog_loading.dart';
import 'package:progress_indicators/progress_indicators.dart';

class HomeLoadingScreen extends StatefulWidget {
  final bool withCancel;
  final Function(MeetStatus meetStatus) navigatorFunc;

  static const String routeName = "/home/loading";

  HomeLoadingScreen({this.withCancel: false, this.navigatorFunc});

  @override
  _HomeLoadingScreen createState() =>
    _HomeLoadingScreen(withCancel, navigatorFunc);
}
```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

}

class _HomeLoadingScreen extends State<HomeLoadingScreen> {
  final bool withCancel;
  final Function(MeetStatus meetStatus) navigatorFunc;

  _HomeLoadingScreen(this.withCancel, this.navigatorFunc);

  void callSnackBar(String text, BuildContext context) {
    ScaffoldMessenger.of(context).showSnackBar(
      SnackBar(behavior: SnackBarBehavior.floating, content: Text(text)));
  }

  void callErrorSnackBar(BuildContext context) {
    callSnackBar('Ошибка! Попробуйте повторить запрос позже.', context);
  }

  @override
  void initState() {
    super.initState();
  }

  _cancelMeet() {
    if (withCancel) {
      var dialogLoading = DialogLoading(context: context);
      dialogLoading.show();
      Api.cancelSearch()
        .then((value) => {
          dialogLoading.stop(),
          if (value.isSuccess())
            {navigatorFunc(value.getData())}
          else
            {
              callErrorSnackBar(context),
            }
        })
        .timeout(Duration(seconds: 10))
        .catchError(
          (obj) => {dialogLoading.stop(), callErrorSnackBar(context)});
    }
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      floatingActionButton: withCancel
        ? FloatingActionButton(
            onPressed: _cancelMeet,
            child: Icon(Icons.cancel),
            backgroundColor: Colors.white,
            foregroundColor: Colors.blueAccent,
          )
        : null,
      backgroundColor: Color.fromRGBO(67, 100, 248, 0.98),
      body: CustomPaint(
        painter: Painter(),

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

child: Center(
  child: Stack(children: [
    Center(
      child: Image.asset(
        "images/bird_with_coffee.png",
        scale: 4,
      ),
    ),
    Positioned(
      right: MediaQuery.of(context).size.width / 2 - 43,
      bottom: MediaQuery.of(context).size.height / 2 - 130,
      child: JumpingDotsProgressIndicator(
        color: Colors.white,
        numberOfDots: 5,
        fontSize: 36.0,
      ),
    ),
  ]),
));
}

class Painter extends CustomPainter {
  @override
  void paint(Canvas canvas, Size size) {
    final height = size.height;
    final width = size.width;

    Paint paint = Paint();
    var path = Path();

    paint.color = Color.fromRGBO(255, 255, 255, 1.0);

    path.addOval(Rect.fromCircle(
      center: Offset(width * 0.25, height * 0.1), radius: height * 0.2));

    path.addOval(Rect.fromCircle(
      center: Offset(width * 0.9, height * 0.9), radius: height * 0.3));

    path.addOval(Rect.fromCircle(
      center: Offset(width * 0.9, height * 0.9), radius: height * 0.25));

    path.addOval(Rect.fromCircle(
      center: Offset(width * 0.9, height * 0.9), radius: height * 0.2));

    path.addOval(Rect.fromCircle(
      center: Offset(width * 0.05, height * 0.6), radius: height * 0.16));

    path.addOval(Rect.fromCircle(
      center: Offset(width * 0.95, height * 0.3), radius: height * 0.15));

    canvas.drawPath(path, paint);
    path.close();

    var path2 = Path();
    paint.color = Color.fromRGBO(67, 100, 248, 0.98);
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    path2.addOval(Rect.fromCircle(
      center: Offset(width * 0.95, height * 0.95), radius: height * 0.16));
    canvas.drawPath(path2, paint);

    canvas.drawPath(path2, paint);
  }

  @override
  bool shouldRepaint(CustomPainter oldDelegate) {
    return oldDelegate != this;
  }
}

```

1.33. home_meets.dart

```

import 'package:cached_network_image/cached_network_image.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/rendering.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/data/meet.dart';
import 'package:hse_coffee/ui/auth/header.dart';

import 'home_person_info.dart';

class HomeMeetsScreen extends StatefulWidget {
  static const String routeName = "/home/meets";

  @override
  _HomeMeetsScreen createState() => _HomeMeetsScreen();
}

class _HomeMeetsScreen extends State<HomeMeetsScreen> {
  List<Meet> _meets;

  @override
  void initState() {
    super.initState();

    loadMeets();
  }

  void loadMeets() {
    Api.getMeets().then((value) => {
      if (value.isSuccess()) {_meets = value.getData(), setState(() {})}
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

body: Builder(
builder: (context) => Column(mainAxisSize: MainAxisSize.max, children: [
  Header(title: "История встреч"),
  if (_meets == null)
    Center(child: CircularProgressIndicator())
  else if (_meets.isNotEmpty)
    SingleChildScrollView(
      child: GridView.count(
        physics: NeverScrollableScrollPhysics(),
        shrinkWrap: true,
        scrollDirection: Axis.vertical,
        padding: const EdgeInsets.all(20.0),
        crossAxisSpacing: 10.0,
        crossAxisCount: 2,
        children: List.generate(_meets.length, (index) {
          return Center(child: MeetCard(_meets[index]));
        }),
      ),
    ),
  else
    Expanded(
      child: Center(
        child: Text(
          "У Вас ещё не было встреч.\n"
          " Самое время начать поиск!",
          textAlign: TextAlign.center,
          style: TextStyle(fontSize: 12.0, fontFamily: "Nunito"),
        ),
      ),
    ),
]),
));
}

class MeetCard extends StatelessWidget {
  final Meet meet;

  MeetCard(this.meet, {Key key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    var user =
      UserStorage().user.email == meet.user1.email ? meet.user2 : meet.user1;
    var date = meet.createdDate.toLocal();

    void onTap() {
      Navigator.push(
        context,
        MaterialPageRoute(builder: (context) => HomePersonScreen(user)),
      );
    }

    return GestureDetector(
      onTap: onTap,
      child: new Container(
        width: double.infinity,

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

decoration: new BoxDecoration(
  boxShadow: [
    new BoxShadow(
      color: Colors.grey.withOpacity(.5),
      blurRadius: 5.0, // soften the shadow
      spreadRadius: 5.0, //extend the shadow
      offset: Offset(
        5.0, // Move to right 10 horizontally
        5.0, // Move to bottom 10 Vertically
      ),
    ),
  ],
),
child: Card(
  clipBehavior: Clip.antiAliasWithSaveLayer,
  shadowColor: Colors.black,
  shape: RoundedRectangleBorder(
    borderRadius: BorderRadius.circular(10),
  ),
  elevation: 5,
  child: Column(
    mainAxisAlignment: MainAxisAlignment.min,
    crossAxisAlignment: CrossAxisAlignment.stretch,
    children: <Widget>[
      Container(
        height: 110,
        child: CachedNetworkImage(
          imageUrl: Api.getImageUrlByUser(user),
          fit: BoxFit.cover),
      ),
      Padding(
        padding: EdgeInsets.only(
          top: 2, bottom: 1, right: 12, left: 12),
        child: Center(
          child: Text(
            user.firstName + " " + user.lastName,
            textAlign: TextAlign.center,
            style: TextStyle(fontSize: 12.0, fontFamily: "Nunito"),
          )),
      Padding(
        padding: EdgeInsets.symmetric(vertical: 1.0),
        child: Row(
          mainAxisAlignment: MainAxisAlignment.center,
          //Center Row contents horizontally,
          crossAxisAlignment: CrossAxisAlignment.center,
          children: <Widget>[
            Padding(
              padding: EdgeInsets.symmetric(horizontal: 3),
              child: Icon(
                Icons.person,
                color: Colors.blueAccent,
                size: 12,
              )),
            Text(
              "${date.day}.${date.month.toString().length == 1 ? "0" +
date.month.toString() : date.month}.${date.year}",

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        style: TextStyle(fontSize: 10.0),
      ),
    ],
  )),
  ],
  )),
);
}
}

```

1.34. home_person_info.dart

```

import 'package:cached_network_image/cached_network_image.dart';
import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:flutter/widgets.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/data/user.dart';
import 'package:hse_coffee/ui/widgets/auth_faculty_items.dart';
import 'package:hse_coffee/ui/widgets/button_continue.dart';

class HomePersonScreen extends StatefulWidget {
  final bool withBack;

  static const String routeName = "/home/person";
  final User user;

  HomePersonScreen(this.user, {this.withBack: true});

  @override
  _HomePersonScreen createState() => _HomePersonScreen(user);
}

class _HomePersonScreen extends State<HomePersonScreen> {
  final User user;

  _HomePersonScreen(this.user);

  @override
  void initState() {
    super.initState();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Builder(
        builder: (context) => SingleChildScrollView(
          child: Column(
            mainAxisAlignment: MainAxisAlignment.min,
            children: [
              Container(
                width: double.infinity,
                child: CachedNetworkImage(

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

        alignment: Alignment.bottomLeft,
        fit: BoxFit.cover,
        imageUrl: Api.getImageUrlByUser(user),
        errorWidget: (context, url, dynamic) =>
            new Icon(Icons.error),
    ),
),
Padding(
    padding: const EdgeInsets.only(
        top: 10, right: 12, left: 12, bottom: 0),
    child: Text(
        user.getFullName(),
        style: TextStyle(
            fontSize: 22,
            fontFamily: "Nunito",
            fontWeight: FontWeight.bold),
        textAlign: TextAlign.center,
    ),
),
Padding(
    padding: const EdgeInsets.all(4.0),
    child: Text(
        DataRes.getFacultyName(user.faculty) +
            ", ${user.course} курс",
        style: TextStyle(
            fontSize: 16,
            fontFamily: "Nunito",
            fontWeight: FontWeight.bold),
        textAlign: TextAlign.center,
    ),
),
user.aboutMe.isEmpty
    ? Container()
    : Padding(
        padding:
            const EdgeInsets.symmetric(horizontal: 8.0),
        child: Text(
            "\"${user.aboutMe.replaceAll("\n\n", "\n")}\"\"",
            style: TextStyle(
                fontSize: 14,
                fontStyle: FontStyle.italic,
                fontFamily: "Nunito",
            ),
            textAlign: TextAlign.center,
        ),
    ),
const Divider(height: 24, thickness: 2),
Padding(
    padding: const EdgeInsets.all(8.0),
    child: Column(
        mainAxisAlignment: MainAxisAlignment.min,
        crossAxisAlignment: CrossAxisAlignment.center,
        children: [
            DataCard("images/icons/tg.png", user.getTelegram()),
            DataCard("images/icons/vk.png", user.getVk()),
            DataCard("images/icons/inst.png", user.getInst()),

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

    ],
  ),
),
widget.withBack
  ? Padding(
    padding: EdgeInsets.symmetric(
      horizontal: 16, vertical: 32),
    child: ButtonContinue(
      textButton: "Вернуться назад",
      onPressed: () => Navigator.pop(context)))
  : Container()
],
),
));
}
}

class DataCard extends StatelessWidget {
  final String _text;
  final String _assetPath;
  final double sizeIco;
  final Function onTap;

  DataCard(this._assetPath, this._text, {this.sizeIco: 32.0, this.onTap});

  @override
  Widget build(BuildContext context) {
    if (_text.isEmpty) return Container();
    return GestureDetector(
      onTap: onTap == null ? () => print("null func") : onTap(),
      child: Padding(
        padding: const EdgeInsets.symmetric(horizontal: 16.0),
        child: Card(
          child: Center(
            child: Row(
              mainAxisAlignment: MainAxisAlignment.max,
              crossAxisAlignment: CrossAxisAlignment.center,
              children: [
                Padding(
                  padding: const EdgeInsets.all(8.0),
                  child: Image.asset(_assetPath,
                    width: sizeIco, height: sizeIco),
                ),
                Text(
                  _text,
                  textAlign: TextAlign.left,
                )
              ],
            ),
          ),
        ),
      ),
    );
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1.35. splash.dart

```

import 'dart:async';
import 'dart:core';

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:hse_coffee/business_logic/api.dart';
import 'package:hse_coffee/business_logic/auth.dart';
import 'package:hse_coffee/business_logic/user_storage.dart';
import 'package:hse_coffee/router_auth.dart';
import 'package:hse_coffee/ui/splash/splash_background.dart';

class SplashScreen extends StatefulWidget {
  final String nextRoute;

  SplashScreen({this.nextRoute});

  // все подобные виджеты должны создавать своё состояние,
  // нужно переопределять данный метод
  @override
  State<StatefulWidget> createState() => _SplashScreenState();
}

// Создаём состояние виджета
class _SplashScreenState extends State<SplashScreen> {
  // Инициализация состояния
  @override
  void initState() {
    super.initState();
    Timer(Duration(seconds: 3), () {
      Auth.getData()
        .then((value) => {
          if (value.containsKey(Auth.refreshTokenKey))
          {
            Api.getUser().then((value) => {
              if (value.isSuccess())
              {
                UserStorage.instance.user = value.getData(),
                RouterHelper.routeByUser(context, value.getData())
              }
              else
              {
                Navigator.of(context)
                  .pushReplacementNamed(widget.nextRoute)
              }
            })
          }
          else
          {Navigator.of(context).pushReplacementNamed(widget.nextRoute)}
        })
        .timeout(Duration(seconds: 5))
        .catchError((obj) =>
          {Navigator.of(context).pushReplacementNamed(widget.nextRoute)});
    });
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```

}

// Формирование виджета
@override
Widget build(BuildContext context) {
  return Scaffold(
    body: CustomPaint(
      painter: SplashPainter(),
      child: Column(children: <Widget>[
        Container(
          width: double.infinity,
          child: Padding(
            padding:
              EdgeInsets.symmetric(vertical: 25, horizontal: 25),
            child: RichText(
              text: TextSpan(children: <TextSpan>[
                TextSpan(
                  text: "Добро\нпожаловать\nв ",
                  style: TextStyle(
                    fontFamily: 'Nunito',
                    color: Colors.black,
                    fontSize: 48,
                    fontWeight: FontWeight.bold)),
                TextSpan(
                  text: "HSEcoffee",
                  style: TextStyle(
                    fontFamily: 'Nunito',
                    color: Colors.blueAccent,
                    fontSize: 52,
                    fontWeight: FontWeight.bold))
              ]))
            ]))
        Transform.rotate(
          angle: 76,
          child: Image(image: AssetImage('images/bird.png'))),
        Expanded(
          child: Padding(
            padding: EdgeInsets.all(15),
            child: Align(
              alignment: Alignment.bottomRight,
              child: CircularProgressIndicator(
                strokeWidth: 4.0, backgroundColor: Colors.white)),
          ))
      ]));
}

```

1.36. splash_background.dart

```

import 'dart:math';

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

class SplashPainter extends CustomPainter {

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

@Override
void paint(Canvas canvas, Size size) {
    final height = size.height;
    final width = size.width;
    Paint paint = Paint();

    Path mainBackground = Path();
    mainBackground.addRect(Rect.fromLTRB(0, 0, width, height));
    paint.color = Color.fromRGBO(60, 106, 252, 1);
    canvas.drawPath(mainBackground, paint);
    mainBackground.close();

    var path = Path();

    path.addOval(Rect.fromCircle(
        center: Offset(width * 0.5, height * 0.5), radius: height * 0.2));

    paint.color = Color.fromRGBO(112, 144, 253, 100);
    canvas.drawPath(path, paint);

    path.addOval(Rect.fromCircle(
        center: Offset(width * 0.1, height), radius: height * 0.2));

    path.addOval(Rect.fromCircle(
        center: Offset(width - width * 0.1, height * 0.8),
        radius: height * 0.3));

    paint.color = Color.fromRGBO(255, 255, 255, 0.2);
    canvas.drawPath(path, paint);

    path.close();

    var parabola = Path();
    parabola.addOval(Rect.fromCircle(
        center: Offset(width * 0.4, -height * 0.3), radius: height * 0.75));

    paint.color = Colors.white;
    canvas.drawPath(parabola, paint);
    parabola.close();
}

void drawRandomOvals(
    Canvas canvas, Paint paint, int n, double width, double height) {
    paint.color = Colors.blueAccent;

    for (int i = 0; i < n; i++) {
        var oval = Path();
        oval.addOval(Rect.fromCircle(
            center: Offset(
                width * Random().nextDouble(), height * Random().nextDouble()),
            radius: height * Random().nextDouble() / 15));
        canvas.drawPath(oval, paint);
    }
}

```

@Override

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

bool shouldRepaint(CustomPainter oldDelegate) {
  return oldDelegate != this;
}
}

```

1.37. auth_faculty_items.dart

```

import 'package:hse_coffee/data/degree.dart';
import 'package:hse_coffee/data/faculty.dart';
import 'package:smart_select/smart_select.dart';

class DataRes {
  static String getFacultyName(Faculty faculty) {
    if (choicesFaculties.firstWhere((element) => element.value == faculty) ==
        null) {
      return "";
    }

    return choicesFaculties
      .firstWhere((element) => element.value == faculty)
      .title;
  }

  static final choicesDegrees = <S2Choice<Degree>>[
    S2Choice<Degree>(value: Degree.BACHELOR, title: "Бакалавриат"),
    S2Choice<Degree>(value: Degree.MAGISTRACY, title: "Магистратура"),
    S2Choice<Degree>(value: Degree.POSTGRADUATE, title: "Аспирантура"),
    S2Choice<Degree>(value: Degree.SPECIALTY, title: "Специалитет"),
  ];

  static final choicesFaculties = <S2Choice<Faculty>>[
    S2Choice<Faculty>(value: Faculty.BANK, title: "Банковский институт"),
    S2Choice<Faculty>(
      value: Faculty.JURISPRUDENCE,
      title: "Высшая школа юрисиспруденции и администрирования"),
    S2Choice<Faculty>(value: Faculty.BUSINESS, title: "Высшая школа бизнеса"),
    S2Choice<Faculty>(
      value: Faculty.STATISTIC,
      title: "Институт статистических исследований и экономики знаний"),
    S2Choice<Faculty>(value: Faculty.LYCEUM, title: "Лицей НИУ ВШЭ"),
    S2Choice<Faculty>(value: Faculty.ELECTRONIC, title: "МИЭМ"),
    S2Choice<Faculty>(
      value: Faculty.MIEF,
      title: "Международный институт экономики и финансов"),
    S2Choice<Faculty>(
      value: Faculty.BIOLOGY, title: "Факультет биологии и биотехнологии"),
    S2Choice<Faculty>(
      value: Faculty.HUMANITARIAN, title: "Факультет гуманитарных наук"),
    S2Choice<Faculty>(
      value: Faculty.CITY,
      title: "Факультет городского и регионального развития"),
    S2Choice<Faculty>(
      value: Faculty.GEOGRAPHY,
      title: "Факультет географии и геоинформационных технологий"),
  ];

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

S2Choice<Faculty>(
  value: Faculty.MEDIA, title: "Факультет коммуникация, медиа и дизайна"),
S2Choice<Faculty>(
  value: Faculty.COMPUTER, title: "Факультет компьютерных наук"),
S2Choice<Faculty>(value: Faculty.MATH, title: "Факультет математики"),
S2Choice<Faculty>(
  value: Faculty.WORLD_ECONOMY,
  title: "Факультет мировой экономики и мировой политики"),
S2Choice<Faculty>(value: Faculty.LAWYER, title: "Факультет права"),
S2Choice<Faculty>(
  value: Faculty.SOCIAL, title: "Факультет социальных наук"),
S2Choice<Faculty>(value: Faculty.PHYSICS, title: "Факультет физики"),
S2Choice<Faculty>(value: Faculty.CHEMICAL, title: "Факультет химии"),
S2Choice<Faculty>(
  value: Faculty.ECONOMY, title: "Факультет экономических наук"),
S2Choice<Faculty>(
  value: Faculty.LANGUAGE, title: "Школа иностранных языков"),
];
}

```

1.38. button_continue.dart

```

import 'package:flutter/cupertino.dart';
import 'package:gradient_widgets/gradient_widgets.dart';

class ButtonContinue extends StatelessWidget {
  String textButton = "Продолжить";

  ButtonContinue({Key key, this.onPressed, this.textButton}) : super(key: key);
  final Function onPressed;

  @override
  Widget build(BuildContext context) {
    return GradientButton(
      child: Text(textButton == null ? "Продолжить" : textButton,
        style: TextStyle(fontSize: 16.0)),
      callback: () {
        onPressed();
      },
      increaseWidthBy: 150.0,
      increaseHeightBy: 10,
      gradient: LinearGradient(
        begin: Alignment.topLeft,
        end: Alignment.bottomRight,
        colors: [
          Color.fromRGBO(0, 82, 212, 1),
          Color.fromRGBO(49, 94, 252, 1),
          Color.fromRGBO(111, 177, 252, 1)
        ],
      ),
      shadowColor: Gradients.backToFuture.colors.last.withOpacity(0.25),
    );
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1.39. capsule_widget.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

class CapsuleWidget extends StatelessWidget {
  final Color fillColor;
  final Color textColor;
  final String label;
  final double ribbonHeight;
  final double ribbonRadius;

  const CapsuleWidget({
    Key key,
    this.fillColor = Colors.white24,
    this.textColor = Colors.black,
    @required this.label,
    @required this.ribbonHeight,
    this.ribbonRadius = 1000,
  }) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Row(
      children: <Widget>[
        Expanded(
          child: Container(
            height: ribbonHeight,
            color: fillColor,
          ),
        ),
        Container(
          decoration: BoxDecoration(
            color: fillColor,
            borderRadius: BorderRadius.circular(ribbonRadius)),
          child: Padding(
            padding: const EdgeInsets.all(6.0),
            child: Text(
              label,
              style: TextStyle(color: textColor, fontWeight: FontWeight.w500),
            ),
          ),
        ),
        Expanded(
          child: Container(
            height: ribbonHeight,
            color: fillColor,
          ),
        ),
      ],
    );
  }
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1.40. dialog_loading.dart

```

import 'package:flutter/material.dart';

class DialogLoading {
  static const String _Default_Text = "Загружаю...";
  final BuildContext context;
  final String text;

  DialogLoading({@required this.context, this.text});

  void show() {
    AlertDialog alert = AlertDialog(
      content: new Row(
        children: [
          CircularProgressIndicator(strokeWidth: 3.0),
          Container(
            margin: EdgeInsets.symmetric(horizontal: 15.0),
            child: Text(text == null ? _Default_Text : text)),
        ],
      ),
    );
    showDialog(
      barrierDismissible: false,
      context: context,
      builder: (BuildContext context) {
        return alert;
      },
    );
  }

  void stop() {
    Navigator.pop(context);
  }
}

```

1.41. edu_fields.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';
import 'package:hse_coffee/data/degree.dart';
import 'package:hse_coffee/data/faculty.dart';
import 'package:smart_select/smart_select.dart';

import 'auth_faculty_items.dart';

class EducationFields extends StatefulWidget {
  final state = _EducationFieldsState();

  @override
  _EducationFieldsState createState() => state;
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

```

class _EducationFieldsState extends State<EducationFields> {
  Faculty faculty;
  Degree degree;

  @override
  Widget build(BuildContext context) {
    return Column(children: <Widget>[
      SmartSelect<Faculty>.single(
        title: 'Образовательные программы',
        value: faculty,
        onChange: (selected) => setState(() => faculty = selected.value),
        choiceItems: DataRes.choicesFaculties,
        modalType: S2ModalType.fullPage,
        modalHeaderStyle: S2ModalHeaderStyle(
          backgroundColor: Theme.of(context).cardColor,
        ),
        modalActionsBuilder: (context, state) {
          return <Widget>[
            Padding(
              padding: const EdgeInsets.only(right: 13),
              child: state.choiceSelector,
            )
          ];
        },
        modalDividerBuilder: (context, state) {
          return const Divider(height: 1);
        },
      ),
      const Divider(indent: 20),
      SmartSelect<Degree>.single(
        title: 'Степень образования',
        value: degree,
        onChange: (selected) => setState(() => degree = selected.value),
        choiceItems: DataRes.choicesDegrees,
        modalType: S2ModalType.fullPage,
        modalHeaderStyle: S2ModalHeaderStyle(
          backgroundColor: Theme.of(context).cardColor,
        ),
        modalActionsBuilder: (context, state) {
          return <Widget>[
            Padding(
              padding: const EdgeInsets.only(right: 13),
              child: state.choiceSelector,
            )
          ];
        },
        modalDividerBuilder: (context, state) {
          return const Divider(height: 1);
        },
      ),
    ]),
  );
}

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

1.42. text_field_wrapper.dart

```

import 'package:flutter/cupertino.dart';
import 'package:flutter/material.dart';

class TextFieldWrapper extends StatelessWidget {
  final int minLengthName;
  final int maxLengthName;
  final TextInputType textInputType;
  final String hintText;
  final String labelText;
  final String iconPath;
  final int maxLines;
  final bool ignoreValidate;
  final TextEditingController controller;

  TextFieldWrapper(
    {Key key,
    this.hintText,
    this.labelText,
    this.controller,
    this.minLengthName: 2,
    this.maxLengthName: 15,
    this.textInputType: TextInputType.name,
    this.maxLines: 1,
    this.iconPath,
    this.ignoreValidate: false})
    : super(key: key);

  bool _isValidName(String text) {
    return text != null &&
      text.length > minLengthName &&
      text.length < maxLengthName;
  }

  @override
  Widget build(BuildContext context) {
    return TextFormField(
      maxLines: maxLines,
      keyboardType: textInputType,
      controller: this.controller,
      validator: (input) => ignoreValidate
        ? null
        : _isValidName(input)
        ? null
        : "Пожалуйста, заполните корректно поле!",
      cursorColor: Colors.blue,
      decoration: InputDecoration(
        prefixIcon:
          iconPath != null ? Image.asset(iconPath, scale: 2.25) : null,
        hintText: hintText,
        border: OutlineInputBorder(
          borderRadius: BorderRadius.circular(16.0),
          borderSide: BorderSide(
            width: 2,

```

Изм.	Лист	№ докум.	Подп.	Дата
RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата


```
        color: Colors.blue,
      ),
    ),
    errorBorder: OutlineInputBorder(
      borderRadius: BorderRadius.circular(16.0),
      borderSide: BorderSide(
        width: 2,
        color: Colors.red,
      ),
    ),
    labelText: labelText,
  ),
);
}
```

1.43. toggle_button_gender.dart

```
import 'package:flutter/cupertino.dart';
import 'package:hse_coffee/data/gender.dart';
import 'package:hse_coffee/ui/auth/auth_gender.dart';

class ToggleButtonGender extends StatefulWidget {
  final bool onlySingleChose;
  final ToggleButtonGenderState buttonState;
  final Function onPressed;

  ToggleButtonGender(
    {Key key, this.onPressed, this.buttonState, this.onlySingleChose: true})
    : super(key: key);

  @override
  State<StatefulWidget> createState() {
    return buttonState;
  }
}

class ToggleButtonGenderState extends State<ToggleButtonGender> {
  var isSelected = <bool>[false, false];
  static const String FirstButtonText = "Мужской";
  static const String SecondButtonText = "Женский";

  List<Gender> getGenders() {
    List<Gender> genders = List.of({}, growable: true);
    if (isSelected.length >= 1) {
      if (isSelected[0]) {
        genders.add(Gender.MALE);
      }
      if (isSelected.length >= 2 && isSelected[1]) {
        genders.add(Gender.FEMALE);
      }
    }

    return genders;
  }
}
```

Изм.	Лист	№ докум.	Подп.	Дата
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}

ToggleButtonGenderState(this.isSelected);

void onClicked(int index) {
  if (!widget.onlySingleChose) {
    isSelected[index] = !isSelected[index];

    bool allOff = true;
    for (int i = 0; i < isSelected.length; i++) {
      if (isSelected[i]) {
        allOff = false;
        break;
      }
    }

    if (allOff) {
      isSelected[index] = !isSelected[index];
      return;
    }
  } else {
    if (isSelected[index]) return;

    bool state = isSelected[index];
    isSelected[index] = !state;
    for (int i = 0; i < isSelected.length; i++) {
      if (i != index) {
        isSelected[i] = state;
      }
    }
  }
  setState(() {});
}

@override
Widget build(BuildContext context) {
  return Center(
    child: Row(
      mainAxisAlignment: MainAxisAlignment.center,
      crossAxisAlignment: CrossAxisAlignment.center,
      children: <Widget>[
        Padding(
          padding: const EdgeInsets.all(4.0),
          child: TButton(
            FirstButtonText,
            () => onClicked(0),
            isClicked: isSelected[0],
          ),
        ),
        Padding(
          padding: const EdgeInsets.all(4.0),
          child: TButton(
            SecondButtonText,
            () => onClicked(1),
            isClicked: isSelected[1],
          ),
        ),
      ],
    ),
  );
}

```

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RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

),
l));
}
}

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RU.17701729.04.05-01 12 01-2				
Инв. № подл.	Подп. и	Взам. инв. №	Инв. № дубл.	Подп. и дата

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RU.17701729.04.05-01 12 01-2				
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