Technical Assignment FlyFit API

User registration and Login
- create user profile in database
- phone number, birthday, age, gender, history
- authorization with VK + Facebook

1. Home Screen (default)
- automatically determine latitude and longitude ranges on screen (22.3W – 22.4W; 115.1N – 115.2N)
- identify all fitness club locations stored in database falling within those ranges
- display all clubs fitting lat/long ranges on screen as location icons
- display the closest club

2. Map zoom and stop
- reconfigure lat/long parameters and update map to display clubs

3. Tap on club location
- Display name of club, rating, and whether open or closed

4. Select category
- display clubs in lat/long range which offer workouts with selected category type
- if no clubs in range, expand map to show minimum 2 clubs

5. Select time
- display clubs in lat/long range offering workouts at selected date + time
- if no such workouts in range, expand range to show minimum 2 clubs with matching data
- if no matching workouts, display message showing "no results"
- if category also selected, display only workouts with matching time and category

6. Select location
- display selected location on map with icon and expand range to make 2 km width

7. Gym home screen
- retrieve and display photos, website, hours of operation, and rating

8. Gym home screen category select
- display only categories matching workouts offered by gym, do not show categories from workouts which are not offered
- after category selection, display all workouts offered in the future from those categories
- after selection of workout, display six next workouts offered in the future

9. Gym home screen time select
   - user can choose any time they want, even if no workouts offered then
   - display all workouts matching time indicated by user
   - if no workouts match user indicated time, retrieve workouts which are one hour before or after
   - if no workouts one hour before or after, display message "sorry, no workouts at that time, please try a different date or time"

10. Workout book screen
   - retrieve photos, date and time range, rating, instructor name, places booked and total places offered, and the cost

11. Booking a workout
   - send information to the server saying that another spot for the workout has been reserved
   - allow user to set reminder via the app during a certain period of time
   - allow user to create map navigation from current or other location to workout
   - send user information to gym CRM on main screen
   - send email notification to gym (can be turned off)
   - cancel booking removes one booked spot from workout and removes user info from gym CRM
   - send an automatically generated confirmation code to FlyFit app on user's phone
   - display confirmation code on screen with workout details one hour before event

12. Confirming a booking (in person confirmation)
   - user arrives to gym and says last 4 digits of telephone number
   - gym asks for confirmation code
   - user provides code and gym enters code into CRM, confirming user
   - user information gets stored in gym's workout history
   - user is moved from "registered" to "training" on gym CRM main page

ALTERNATE
   - user can set a PIN for their account and use the PIN to open the app as well as to confirm their check in and check out for any workout
   - user can give the month and date of their birthday to confirm

13. Individual workouts
   - users book, confirm, and check out like a scheduled workout
   - when users open app during individual workout, they are shown the total time spent working out and the total price (updated constantly) with a reminder to check out at the reception once they are finished

14. Ending a workout
- workout finished, user gets dressed and checks out at reception
- the same code used to check in gets used to check out (including month/day of bday)
- once checked out, user is moved from "training" section to "finished" section on gym CRM (users remain there in order of time checked out for 1 hour)
- money is transferred from user's account to gym account
- User receives push notification with receipt and is asked to rate the workout before they are given access to the app. User will not be able to use app until they have rated their workout

15. Viewing upcoming/completed workout
- upcoming booked workouts shown in order of nearest to current time
- completed workouts shown in order of most to least recent
- category icon, workout name, gym, date and time shown

16. Rating gym/workout/trainer
- requirement to rate gym/workout/trainer appears after checkout
- user must rate before being permitted to use app
- rating sent to server updates overall average rating of gym/workout/trainer

API FlyFit (v1.0)

POST /api/1.0/profile
Регистрация пользователя
Params:
1) latitude
2) longitude
3) zoom

POST /api/1.0/phone

Send phone number to the server

SMS Service: https://www.twilio.com/

Docs: https://www.twilio.com/docs/tutorials/account-verification-php-laravel

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POST /api/1.0/code

Send sms code to the server. Return permanent token

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POST /api/1.0/token

Params:
    4) Permanent token
Return temporary token

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POST /api/1.0/profile
Личные данные пользователя
Params:
    5) Имя
    6) Фамилия
    7) Возраст
    8) Пол
    9) Фотка
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POST /api/1.0/authNetwork
Авторизация через социальные сети vk и facebook
Params:
    10) Имя
    11) Фамилия
    12) Возраст
    13) Пол
    14) Фотка
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GET /api/1.0/facilities
Получение списка спортклубов по координатам,
Params:
    15) Latitude радиуса
    16) longitude радиусы
    17) Координаты пользователя

Returns nearest sport facilities.

Также возвращает расстояние до каждого клуба от координат пользователя,нужно предщдусмотреть опцию , что если нет клубов в заданном радиусе, то возвращается новый радиус координат(левый и правый по широте и верхний и нижний угол по высоте) для первых попавшихся в округе клубов(в пределах города) Это же актуально и для поиска тренировок

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GET /api/1.0/facilities/{id}

Return full information about exact sport facility. Available workouts and so on

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GET /api/1.0/workouts
Треинорвки и занятия
Params:
   1) latitude
   2) longitude
   3) zoom

Return nearest workouts

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POST /api/1.0/booking

To book a workout.

Params:
   1) Facility id
   2) Workout id
   3) …..

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PUT /api/1.0/booking

Update booking info

Params:

1) Facility id
2) Workout id
3) ….

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DELETE /api/1.0/booking

Delete booking

Params:
1) Facility id
2) Workout id
3) ….