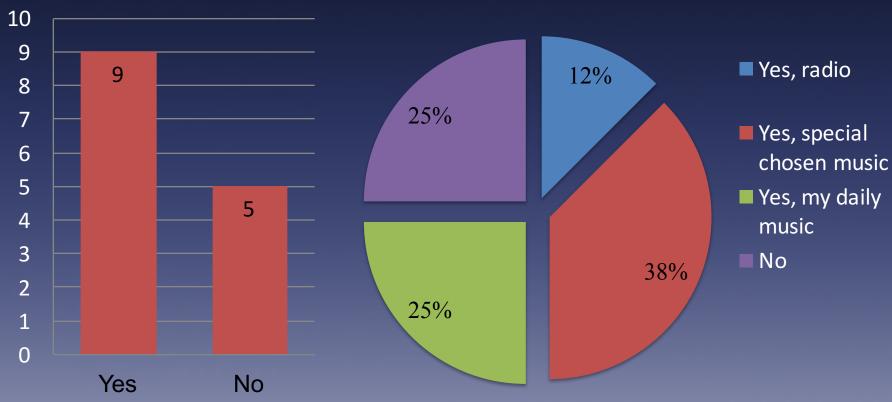


Statistics

In your opinion, is it true that some music give extra power?

How often you listen music during trainings?



Sport Assistance



How it works?



SA Web API SA DB Server





Requests

(q, limit=10, offset=0, type='track')

Searches for an item

Parameters:

- q the search query
- limit the number of items to return
- offset the index of the first item to return
- type the type of item to return.

(user, playlist_id=None, fields=None)

Gets playlist of a user

Parameters:

- user the id of the user
- playlist_id the id of the playlist
- fields which fields to return

(tracks=[])

Get audio features for multiple tracks based upon their Spotify IDs

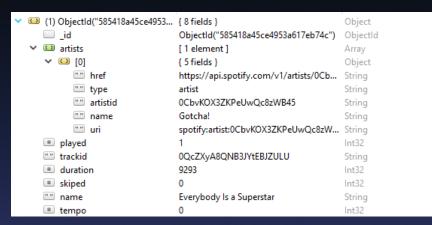
Parameters:

• tracks - a list of track URIs, URLs or IDs, maximum: 50 ids

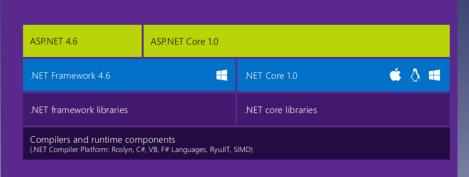
mongoDB



DB Structure



ASP.NET 4.6 and ASP.NET Core 1.0



Server Terminal

```
diakov2100@MAKS-PC:-$ ssh root@46.101.198.18 root@46.101.198.18's password:
welcome to Ubuntu 16.10 (GMU/Linux 4.8.0-30-generic x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://bubuntu.com/advantage

Get cloud support with Ubuntu Advantage Cloud Guest: http://www.ubuntu.com/business/services/cloud

18 packages can be updated.
0 updates are security updates.

Last login: Mon Dec 19 18:54:40 2016 from 188.32.93.220 root@5portAssistante:-# systemctl status SA
1 SA.service - sport assistante web api
Loaded: loaded ('etc/system/system/sA.service; disabled; vendor preset: enabled)
Active: active (running) since Fri 2016-12-16 06:37:08 UTC; 3 days ago
Main PID: 23627 (dotnet)
Tasks: 23 (limit: 4915)
Memory: 156.6M
CPU: 3min 13.991s
CGroup: /system.slice/SA.service
—23627 /usr/bin/dotnet /home/maks/SA/SA.dll
```

SA Web Api

• POST method (every 30 secs, also start training)
Returns spotify track id string

DELETE method (end training)

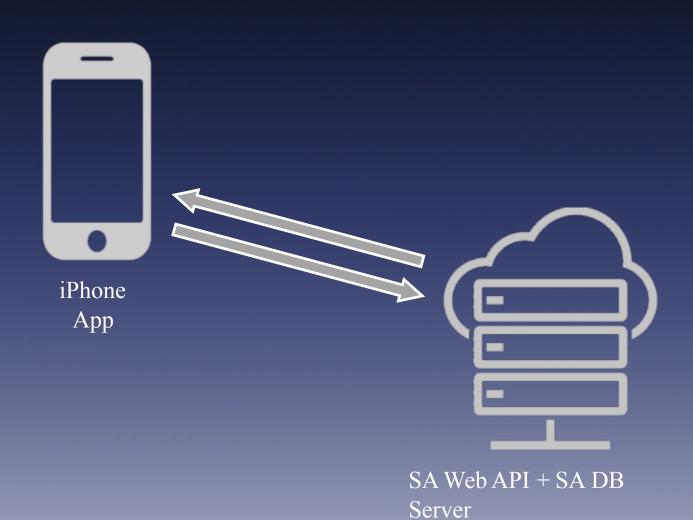
Ends training

• PUT method (every 10 secs)

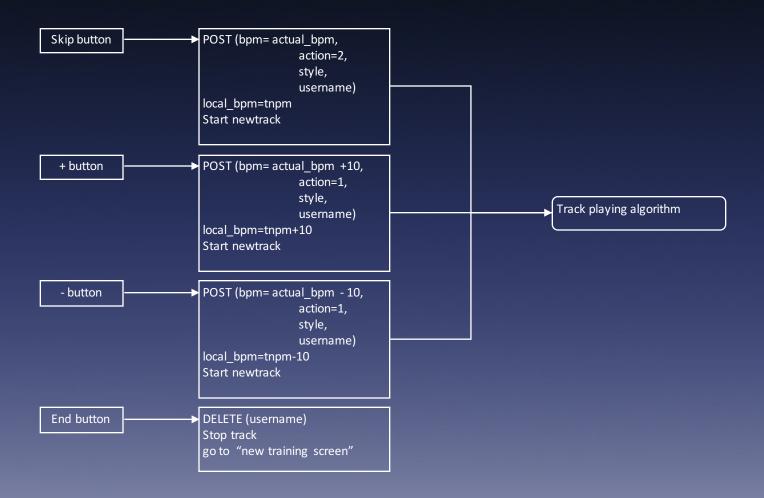
Updates users pulse database

bpm	double	user's pulse
action	int	key: 1 - new track, 2 - new track (previous was skipped), 3 - first track (start training, bpm=0)
username	string	user's Spotify username
style	int	key: 1 - 'Just run', 2 - 'Max rhythm', 3 - 'Max distance'

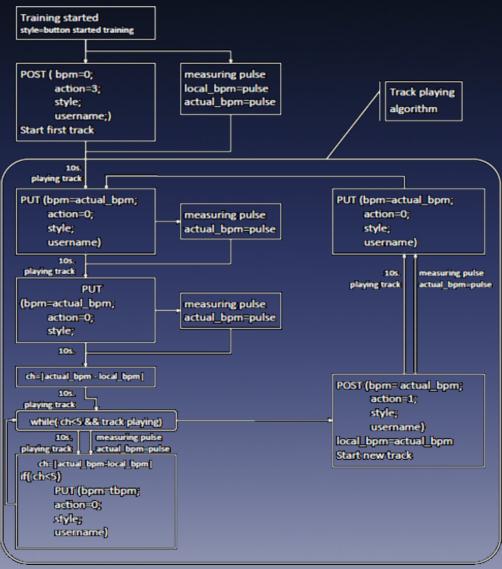
Algorithm



Buttons control



Application algorithm



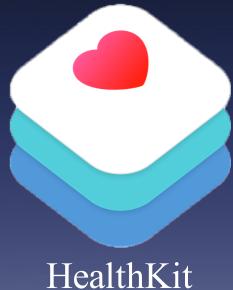
Algorithm



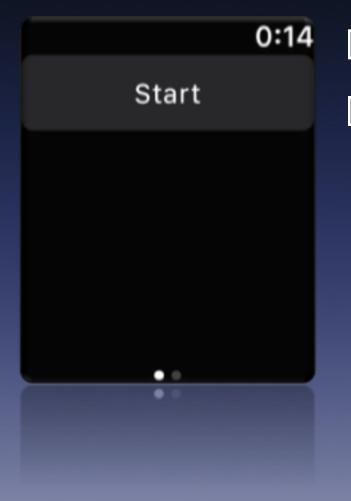
Server

Used SDKs

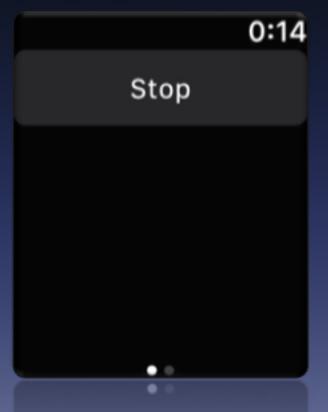




Sessions





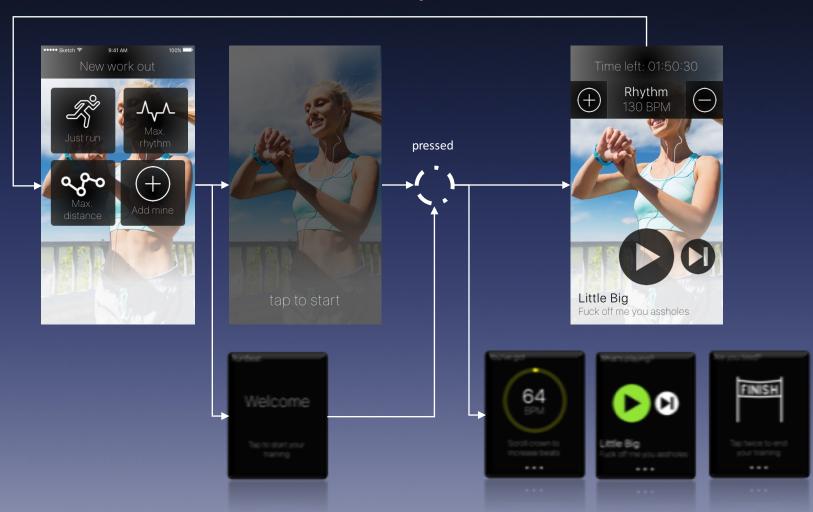


How it looks?



Design

slide to end training



Time to check

