Doctor search service.

Using Geo2tag LBS Platform for mobile healthcare applications.

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Numbers and trends

In 2011:

- Mobile subscribers -- 5,981 millions
- Mobile internet users -- 1,186 millions
- Shipments (handsets) – 1,775 millions
- Shipments (smartphones) -- 491 millions

(Forecast for 2012 – 686 millions)
Main idea of Doctor search
Users

- Patients
  - People from risk group (monitored patients)
  - Everyone
- Doctors
  - Professionals
- Insurance companies
Use cases

• SOS button
• Patient tracking
• Events map displaying

• Auxiliary
  • Registration
  • Logging
Platforms

- Low cost platforms
  - Asha
  - Other j2ME
Geo2tag data model

- Tag
  - description
  - url
  - channel
  - location (X, Y, Z)
  - time

- Filters
  - time
  - spatial filters

- Channel 1
- Channel 2
- Channel 3
- ...
Geo2tag: tracking implementation

Patient A

Tracking message
- time
- position

Server (Geo2tag)

Patient A's channel

Doctor B's channel

Tracking message
- time
- position

Doctor B
Geo2tag: SOS and Event implementation

SOS message
- patient's position
- patient's description

Server (Geo2tag)

Events channel

Filter
- time
- radius

SOS message
- patient's position
- patient's description

Doctor

Patient
Logging in, registration, settings

GeoDoctorSearch
Login
Ivan
Password
••••
Remember me
Sign in
Create account

Create a new account
Login
Kirill
Password
••••
Re-enter password
••••
Register

GeoDoctorSearch settings
Description:
address: nevskiy
diagnosis: strange

Geo2Tag server
http://10.0.2.2
Cancel
Ok
SOS sending
Events delivery
Tracking

Tracking started

Sent coordinates: 59.9876, 30.3323
Sent coordinates: 59.9876, 30.3323
Sent coordinates: 59.9876, 30.3323
Sent coordinates: 59.9876, 30.3323
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Sent coordinates: 59.9876, 30.3323

Tracking stopped

Send mark: lat: 37.422005 lon: -122.084095
Send mark: lat: 37.422005 lon: -122.084095
Send mark: lat: 37.422005 lon: -122.084095
Send mark: lat: 37.422005 lon: -122.084095
Send mark: lat: 37.422005 lon: -122.084095
Send mark: lat: 37.422005 lon: -122.084095
LBS opportunities for mHealth

- Logistics (planning and analyzing Doctor/Patient activities)
- Support and coordination of ambulance cars
- Indoor services in hospitals
Thank you

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