

A close-up, artistic photograph of a camera lens. The lens is out of focus, creating a soft, circular bokeh effect. The colors within the bokeh are a mix of light blue, green, and a prominent magenta/pink ring. The lens itself is dark and metallic, with a small circular opening visible at the top.

Media Streaming Projects

exposit

www.exposit.com

*Projects' links are not provided due to NDA restrictions

PROJECT NAME

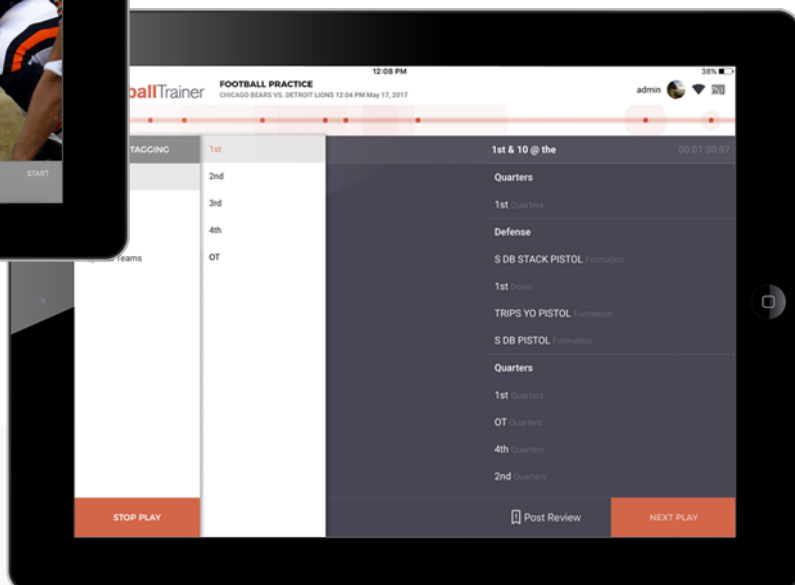
Football Trainer

exposit

INDUSTRY
Sport,
Healthcare

PROJECT TYPE
Mobile app

#Java
#iOS



Football Trainer — football training system, which provides; live video streaming, video tagging, transformation, and playback capabilities. The main purpose of the trainer is to provide players, coaches and support staff with a set of tools to effectively manage team training, events, and game execution by means of tagged video from cameras.

TASK

To develop desktop MacOS and mobile iOS apps.

SOLUTION

Exposit team developed Web, iOS and desktop apps.

Main app features are:

- 1. Sending live and on-demand videos from cameras to iPad and Mac with HTTP Live Streaming (HLS) technology.
- 2. Capturing, playing back video in 10 Bit HDMI and analog video editing in SD and HD using BlackMagic Design Intensity Shuttle.
- 3. Adding the tags (markers of the important match moments) to the video by means of drag & drop and dividing by them into the video segments.
- 4. Video capturing and playback management — convenient viewing the live video, accessing to the previously recorded video and browsing it by using the timeline, exact tags-based positioning, and ability to "jump" to specific video fragments divided by tags.

TECHNOLOGIES USED

The system consists of 4 applications:

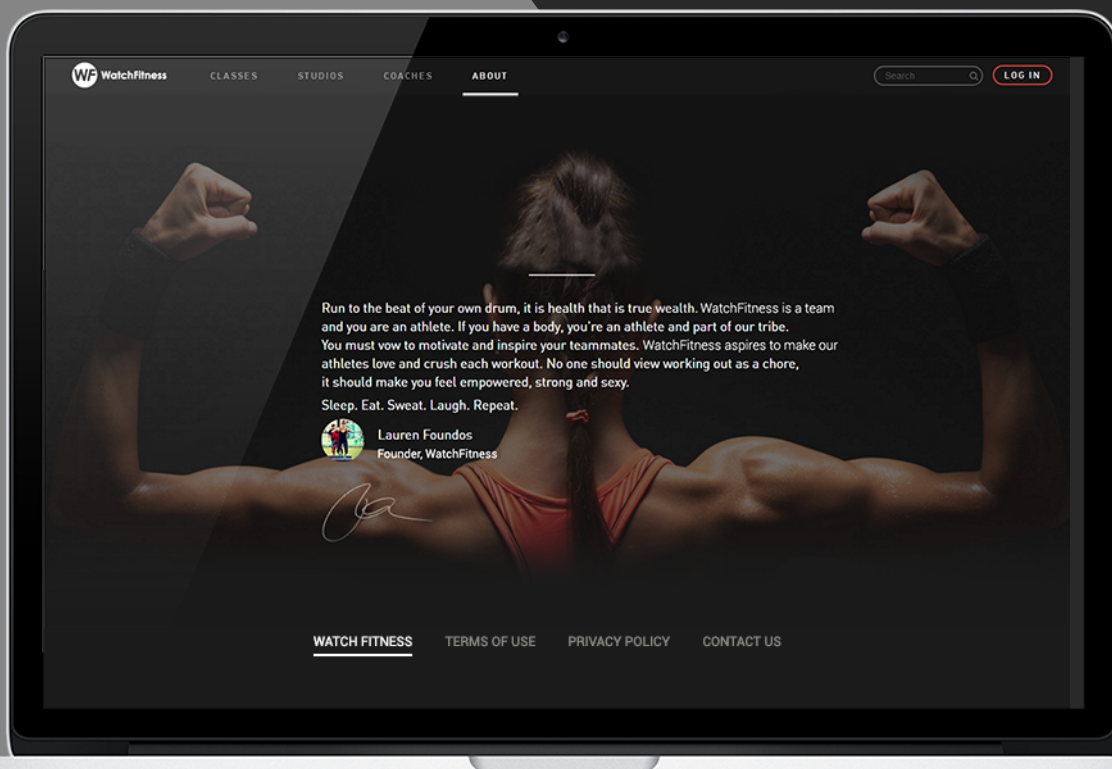
› Part 1. Tagging App for iPad: Swift 3 CocoaFramework CoreData CocoaPods Socket.IO Sprite Kit Gloss Fabric Crashlitics	› Part 2. Work Station for MacOS: Swift 3 AVFoundation CoreMedia CoreData (Magical Record) Alamofire (REST) Socket.IO Fabric Crashlitics	› Part 3. Playback for iPad: CoreData AVFoundation Alamofire (REST) Socket.IO Fabric Crashlitics Gloss	› Part 4. Transmitter for MacOS: Alamofire HTTP Live Streaming Socket.IO DeckLink framework Fabric Crashlitics
---	---	--	---

Backend technologies:

Java 8
Spring
Spring REST
Spring OAuth2
WebSockets (Socket.IO)
MySQL
JPA / Hibernate
HTTP Live Streaming
FFmpeg
Swagger

INDUSTRY
Sport,
HealthcarePROJECT TYPE
Web

#.NET

PROJECT
DESCRIPTION

WatchFitness is a web-based platform for viewing video broadcasts of training sessions which take place in fitness centers under the guidance of a coach. The user can watch both live broadcasts and recorded video tutorials.

TASK

Client side redesigning, server side improvement.

SOLUTION

Exposit team has improved both server and client sides of the project. Our developers have completed the data migration, developed a live streaming module and improved the platform design.

TECHNOLOGIES USED

- .NET
- Entity Framework
- MS SQL
- Azure Services
- MTFS

INDUSTRY

Media & Entertainment

PROJECT TYPES

Mobile

#ios

PROJECT

DESCRIPTION

Live video streaming application based on iOS.

Present.tv is an iOS application for live video broadcasts. During the broadcasts, users can communicate with each other via chat, send comments to the host. The application offers the most popular and interesting online broadcasts that the user can save for later watching.

TASK

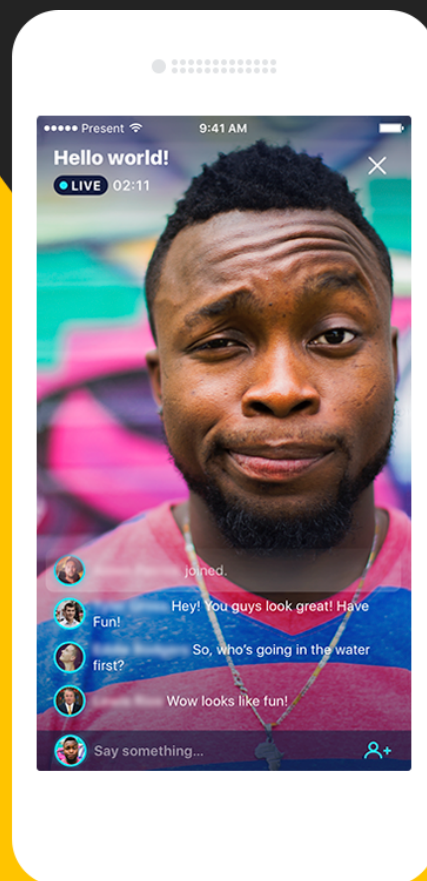
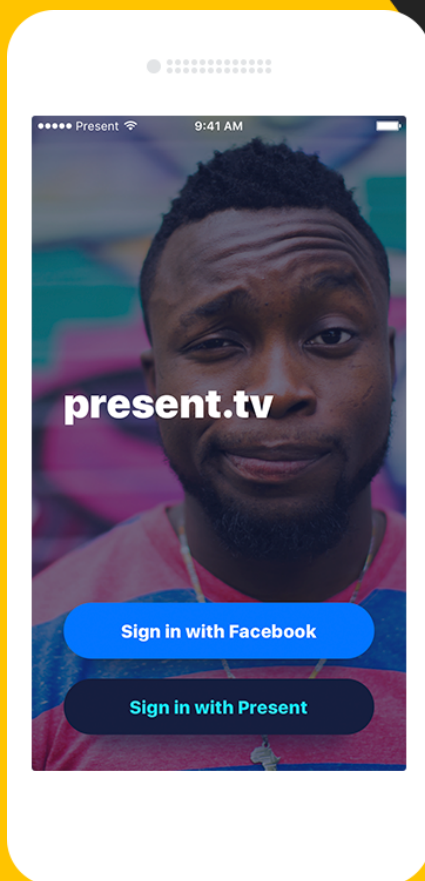
Development of a mobile demo-version of the application based on iOS. Full development of UI.

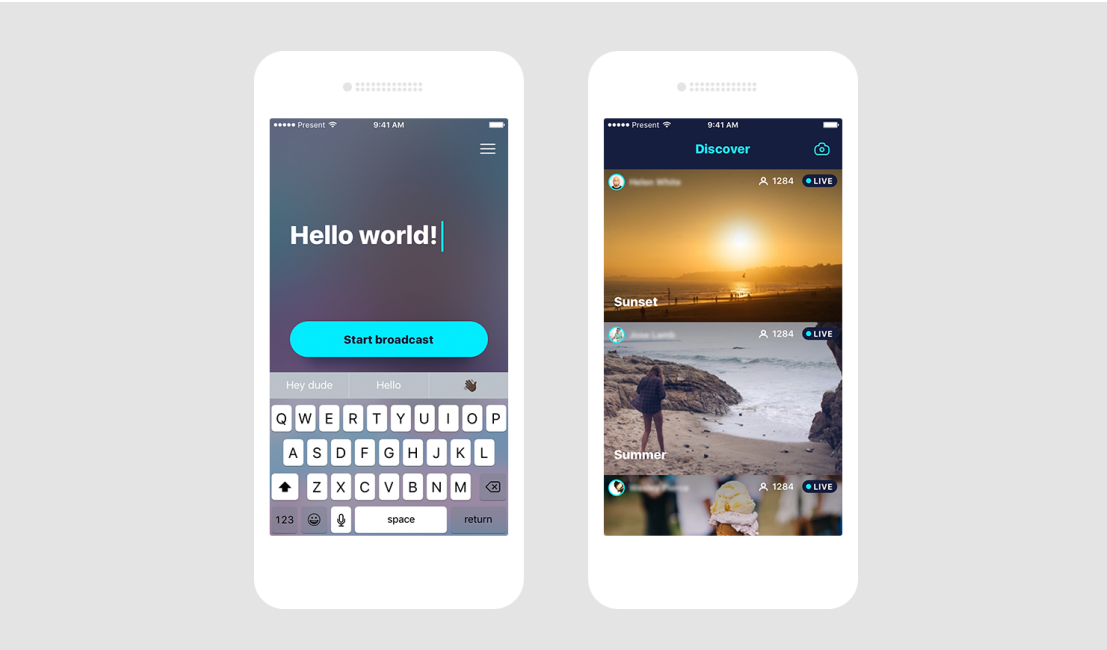
SOLUTION

Development of a front-end part for the subsequent connection of the customer's existing live streaming engine.

TECHNOLOGIES USED

— Swift
— AVFoundation



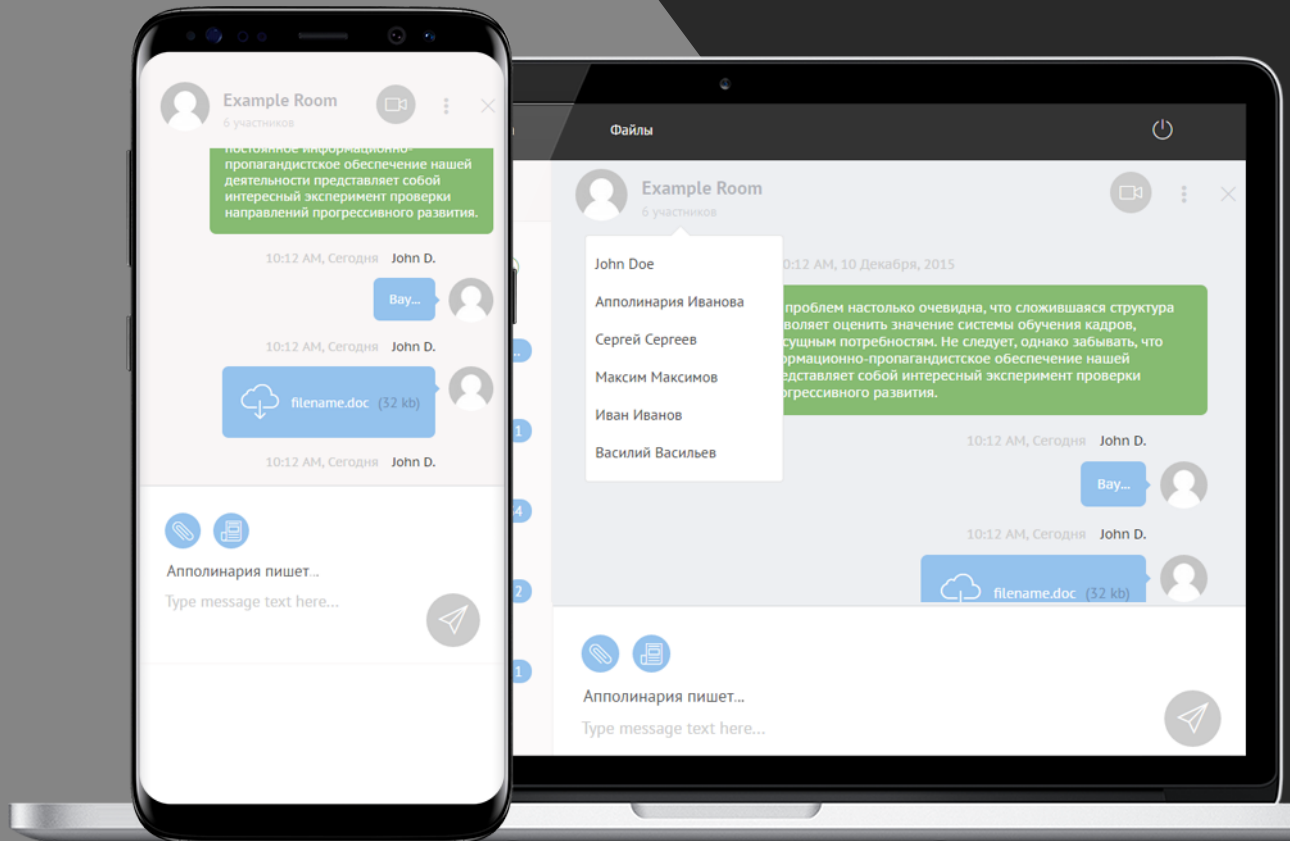


Exposit Business Messenger

INDUSTRY
Software,
Hi-Tech

PROJECT TYPE
Mobile

#Angular 2
#Cordova



PROJECT DESCRIPTION

Exposit Business Messenger is a prototype of a corporate instant messenger with a user-friendly interface and responsive design on Android and iOS developed using WebRTC and Angular2 / TypeScript.

TASK

The Messenger development was originally considered as a "training ground" for new employees and experiments with up to date technologies. The specification was designed in order to cover the functional and technological stack that is often required in real projects: authorization and user roles, files management, REST, WebSockets API, WebRTC, adaptive layout and single-page web application client.

SOLUTION

The Messenger has 2 big modules:

Chat: messaging is based on WebRTC:

- › User network status indication;
- › Creation of private rooms/groups for discussions;
- › User invitation;
- › Notifications when the interlocutor is typing;
- › Sound notifications by new messages;
- › Files and media content exchange;
- › Message history export.

Video:

- › Works from a browser via HTTP, no need to configure firewall, transparent traffic through the Web proxy;
- › WebRTC-based P2P audio and video calls;
- › Media playback.

TECHNOLOGIES USED

- TwitterFlight
- Java Play Framework
- WebRTC
- Websockets API
- REST
- Angular 2
- Zone.js
- RxJS
- Cordova

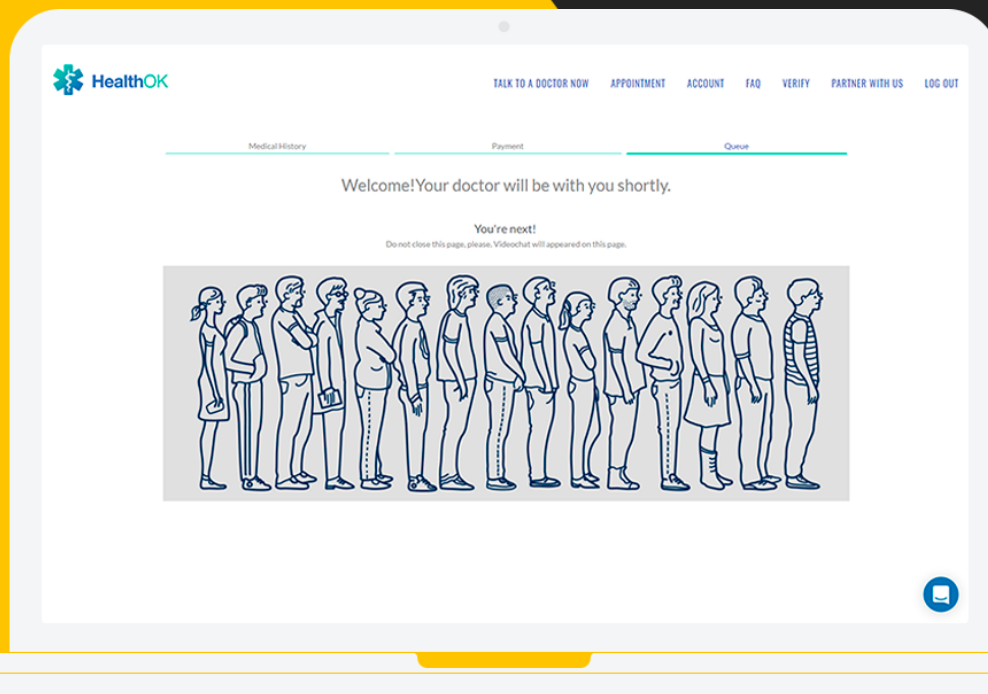
INDUSTRY

Sport & Healthcare

PROJECT TYPES

Web

#angularjs

PROJECT
DESCRIPTION

Application providing remote medical video consultation services.

HealthOK is a web application for an American clinic specializing in providing remote video consultation services to its patients. This can be done by appointment or on first-come-first-served basis. These people receive a request approval or rejection for the medicinal plants cultivation license for medical purposes.

TASK

Development of the Front End part of the application.

SOLUTION

The Front End part of the application with adaptive layout developed:

- Online registration (choosing a doctor and a convenient date of admission);
- Schedule, calendar for medical officers;
- Video conference function.

TECHNOLOGIES USED

- Angular 1.5
- HTML
- CSS
- JS6
- CoffeeScript

INDUSTRY
EducationPROJECT TYPE
Web#Java
#AngularA laptop is shown from a slightly elevated angle, centered in the upper half of the image. The screen is white and displays the text "Image is under NDA." in a black, serif font. The laptop has a dark bezel and a silver base.PROJECT
DESCRIPTION

Web-based educational platform for yoga teachers and those who want to practice yoga. Here teachers provide online courses that students can attend. Platform provides an opportunity for teachers to publish their classes, and within classes — to create separate lessons. Students pay for the course through the Stripe payment system to register and get an access to courses' materials.

When registering, all users are assigned a role (teacher or student), according to which different access rights are granted:

1. Teacher is given an opportunity to edit his home page, the schedule of courses, cost, add materials and so on;
2. Student can view the description of courses and buy them; after purchase he's given an access to all materials.

Information on online courses is presented in the form of media, audio and text files (.pdf, .doc, .mp3, .mp4 formats).

TASK

Development of the application's beta version, integration with Stripe payment system.

SOLUTION

Development of turnkey client and server parts of the application from scratch.
Two-way integration of the Stripe payment system:

- › Student fees (payments from students are made directly to teachers and do not accumulate through the platform);
- › Subscription fee — monthly fixed payments of teachers for using the platform.

TECHNOLOGIES USED

- Java 8
- Angular 4
- PostgreSQL
- Spring Data
- Spring Security
- AWS S3
- Stripe
- Swagger