ubilot

research

- Company Portfolio -

Ubilot is an Italy-based technology company developing wide-range gaming and software solutions with international partnership experience

The team is highly skilled with over 20 years of software engineering experience spacing from automation to 3D graphics

The team is well known for being dynamic and fast to adopt the latest technologies, to obtain the best software solutions for online and land-based gaming

St. Petersburg

London

Vienna

Ljubljana

Belgrade

Casablanca

Ubilot's headquarters are located near the old center of Bassano del Grappa, a small medieval town in the north of Italy.

The latest technology is used for the team workstations, allowing all to express their creativity at the maximum potential
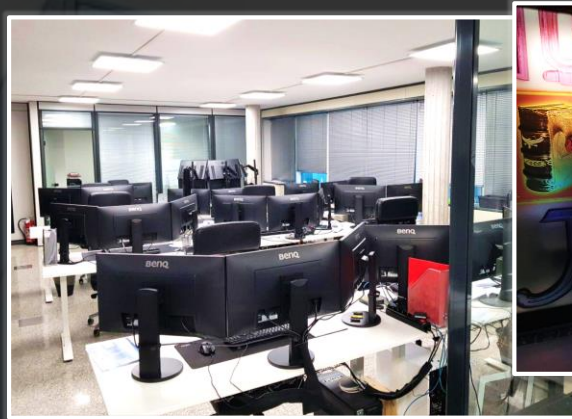
TEAM COMPOSITION

Hardware / C++ developers	2
System engineers	2
Front-end / HTML developers	2
Backoffice / Server-side developers	3
Tester	1
Team / Project manager	2

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OUR SKILL SET

Framework & Tools

Windows | Azure | Microsoft .NET | XAML

ubuntu | Microsoft SQL Server | .NET Core | A

debian | PostgreSQL | C++ | HTML5

Ubilot provides services to system engineering companies, as well as consultancy and planning of complex systems.

- Implementation of turnkey systems on conventional environments
- Implementation of hardware systems for process control
- Activities, software and firmware development
- Product certifications

KIOSK SOFTWARE & HARDWARE INTEGRATION
40%

SERVER APPLICATIONS, BACKOFFICE & SERVICES
35%

UI APPLICATIONS (HTML5) & MOBILE
15%

HTML5 ENGINE & UNITY ENGINE GAMES
10%

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OUR TECHNOLOGY STACK

Languages

- C#
- C++
- C
- Java
- Php
- Html5
- CSS3
- SASS
- Javascript
- Typescript
- Python

Databases

- SQL Server
- Azure SQL Server
- PostgreSQL
- MariaDB / MySQL
- Oracle
- MongoDB
- Azure Cosmos DB

Frameworks

- .NET
- .NET Core
- Asp.NET
- Asp.NET Core
- RESTful API
- SOAP
- SignalR
- Socket.io
- gRPC
- Thrift
- Angular
- React
- Pixi.js
- Ionic
- Xamarin
- React Native
- Webpack
- Gulp
- JQuery
- Mono
- Unity Game Engine
- DotCMS
- Zend Framework

Environments

- Windows
- Linux
- Azure cloud
- AWS cloud
- Docker
- Windows Phone
- Android OS
- iOS
- Debian
- Ubuntu
- Raspbian
- IIS
- Kestrel
- Apache
- Hyper-V

Management

- Agile
- Scrum
- Azure DevOps
- Slack
- CI/CD
- Nuget

Hardware

- CCTalk
- ModBus
- USB
- Arduino
- Raspberry
- Tinkerboard

IDE

- Visual Studio
- Visual Studio Code
- Android Studio
- Xamarin Studio
- Zend Studio
- Arduino IDE
- Visual Micro
- Mono Develop

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New Electronic Gaming Machine (EGM) architecture hardware and software agnostic, integrated into Novomatic specific hardware and generic pc-based hardware

Complete **Electronic Instant Lottery System** solution with ticket management, back-end services, cashdesk application

Slot machine integration, SAS / TiTo (Ticket In – Ticket Out) support, C++/OpenGL games management, support for **GLI-11 certification**

Sports Betting integration, Backend service integration and HTML content management

AWPR integration and planning for Italian market. Low-end hardware integration. JAMMA and CCTalk support. Codice Fiscale management.

Consulting and training. Customer support remote and on-site

NOVOMATIC
NEW EGM ARCHITECTURE

Main features:

- Prerequisites analysis for a market-ready product
- **Cross-platform** and modular / scalable architecture
- **GLI-11 certification** ready
- Slot Machine, Instant Lottery, Sports Betting support all in one software package
- OpenGL C++ and HTML content support
- Multiple game producer support
- **Multi-level audit menu**
- Specific and configurable content settings support
- Real-time events
- Anti-fraud security layer with real time alarms
- Hardware agnostic through abstraction layer
- AGI USB protocol support and implementation
- **SAS protocol support**

Hardware support:

- Novomatic Backplane and KPanel devices support
- Bill acceptors / stackers / recyclers
- Coin acceptors and hoppers
- Barcode scanners
- Fingerprint devices
- NFC devices

.NET Core - Thrift - Docker - SignalR - C# - C++

Rollout and distribution support

PLEASE SELECT A GAME
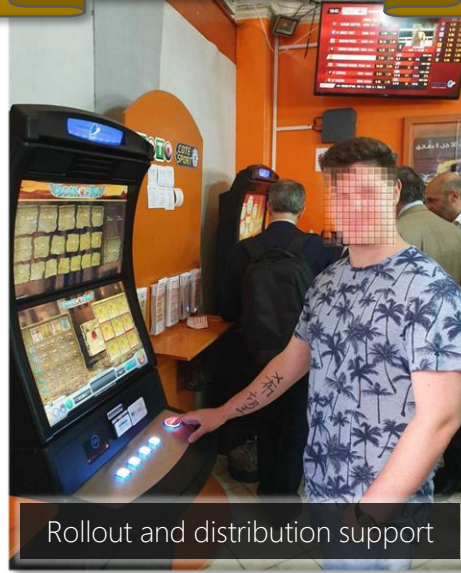
NOVOMATIC
ELECTRONIC INSTANT LOTTERY

Complete solution including:
- Architecture analysis and implementation
- C++ games integration
- Backoffice solution
- Ticket generation / management
- Cashdesk application
- Real time events management
- Ticket management
- Reportings / data export
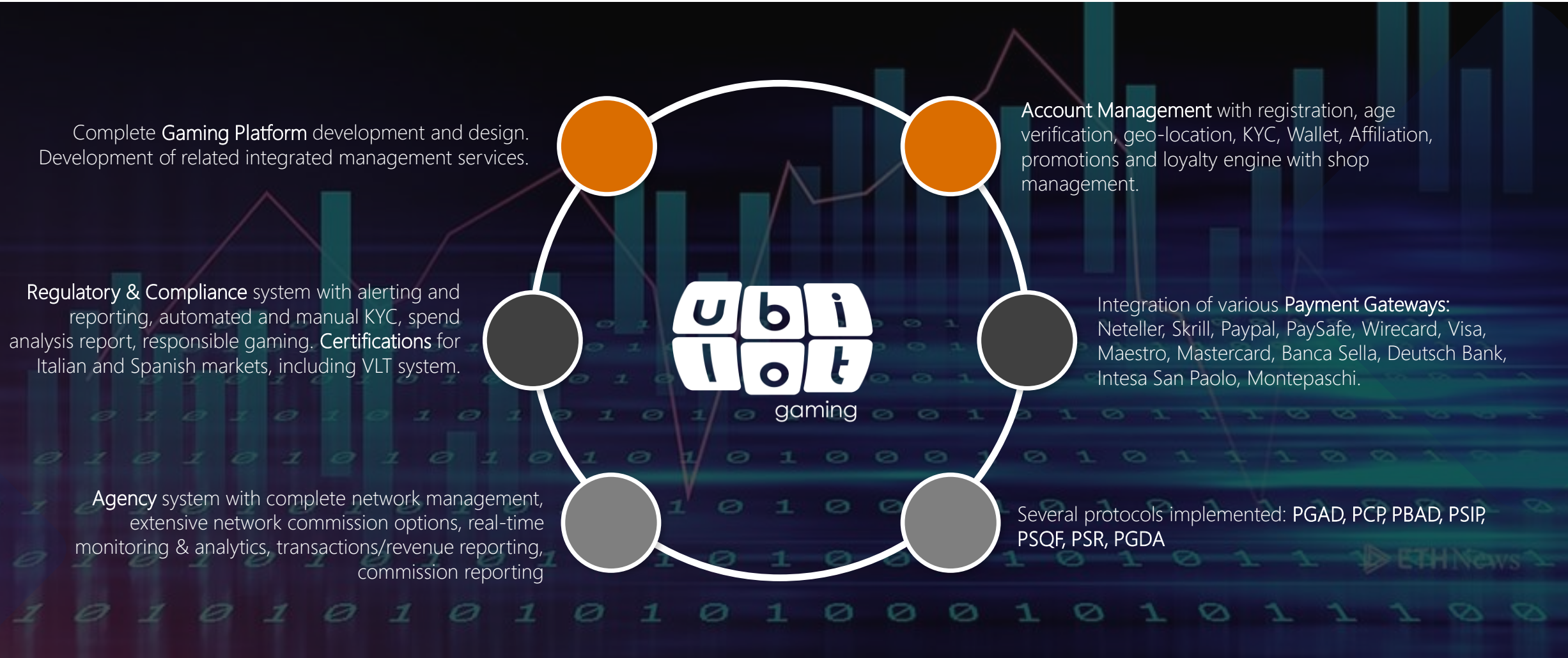- Anti-fraud security layer with real time alarms

Implemented operational options:
- Player account management with cashless interface (cash operations handled only on cashdesk)
- Cash handling directly on device with TiTo (Ticket In - Ticket Out) support

Additional features:
- Machine refurbishment tool and support
- Remote provisioning and installation
- Technical manuals
- On-site support
- Remote update

ASP.NET Core - Docker - SignalR - C# - MariaDB - PostgreSQL

Complete **Gaming Platform** development and design. Development of related integrated management services.

Account Management with registration, age verification, geo-location, KYC, Wallet, Affiliation, promotions and loyalty engine with shop management.

Regulatory & Compliance system with alerting and reporting, automated and manual KYC, spend analysis report, responsible gaming. **Certifications** for Italian and Spanish markets, including VLT system.

Integration of various **Payment Gateways:** Neteller, Skrill, Paypal, PaySafe, Wirecard, Visa, Maestro, Mastercard, Banca Sella, Deutsch Bank, Intesa San Paolo, Montepaschi.

Agency system with complete network management, extensive network commission options, real-time monitoring & analytics, transactions/revenue reporting, commission reporting

Several protocols implemented: **PGAD, PCP, PBAD, PSIP, PSQF, PSR, PGDA**

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GAMING PLATFORM
BACKOFFICE

Main features:
- Complete backoffice system
- Gaming parameters, limits, publications and marketing management
- Financial activities: choice of banking partners, publication of additional payment methods and personalization, cash flow management, collection and payment of winnings
- Account service management with monitoring of end user activities
- Affiliates network and grant-backs management
- Reporting and statistics
- Country specific authorizations and certifications

Integrated game provider:
BetRadar, NetEnt, Microgaming, Evolution Gaming, Amaya, BetConstruct, CakePoker, OnGame network, WorldMatch, Nyx, Quickfire

Integrated Payment gateways:
Paypal, Skrill, Neteller, PaySafe, Maestro, Mastercard, Visa

ASP.NET - IIS - C# - C++ - SQL Server

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More than 50 skins implemented

GAMING PLATFORM
PUBLIC WEBSITE

Main features:
- Customization and personalization of the website UI
- Different gaming sections: casino, poker, bingo, betting, live casino
- Account registration
- Welcome bonus: casino, poker, weekly, monthly
- Account management section
- Promo page
- Responsible gaming page
- Multi-language support
- Online help real-time assistance via chat
- Automatic concessionary license verification
- Winnings verification
- Affiliation system
- KYC system
- GEO-location

ASP.NET - IIS - C# - HTML - SQL Server

Complete **Betting network management backoffice.** Centralized system for all package software tools. Real time communication. Integrated external services. Fast online account registration. Cloud based solution.

Virtual Sports betting Kiosk. Exalogic / PSV protocol integration. Fast and intuitive UI. TiTo management. Ticket win verification.

Sports Betting Kiosk. Exalogic / PSQF protocol integration. Fast and intuitive UI. TiTo (Ticket In – Ticket Out) management. Ticket win verification. Betslip system management.

Multi monitor cloud-based solution. Integrated with central system. Real time update. Low-cost, horizontally scalable solution.

POS fidelization software. Fast account creation via ID card data reading. Fast bets (assisted). Integrated account services.

Online **account recharge kiosk**

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MICROGAME
## BETTING NETWORK MANAGEMENT PLATFORM

Main features:

- Centralized system to manage betting network
- **Fast online player account registration** with user id card (Codice Fiscale), with automatic email creation and confirmation and fidelity card creation
- Player profile management, account validation and status, player activity
- **Fast bets** (assisted) for players in sports, virtual sports, lotto
- **Fidelity card association** for automatic player login, charge, discharge
- Fund transfer from shop account to player account
- **Kiosk (sports and virtual sports) subnetwork management** with real time events and settings change
- Multimonitor subnetwork management with real time content visualization

Additional features:

- Filterable odds fast printing for shops
- Mobile recharge for all operators
- Postal payments, money transfers
- Reports management for kiosk (sports and virtual sports) subnetwork

More than 1.000 operative shops in Italy

ASP.NET - Azure Cloud - WPF - C# - Javascript - HTML - SQL Server

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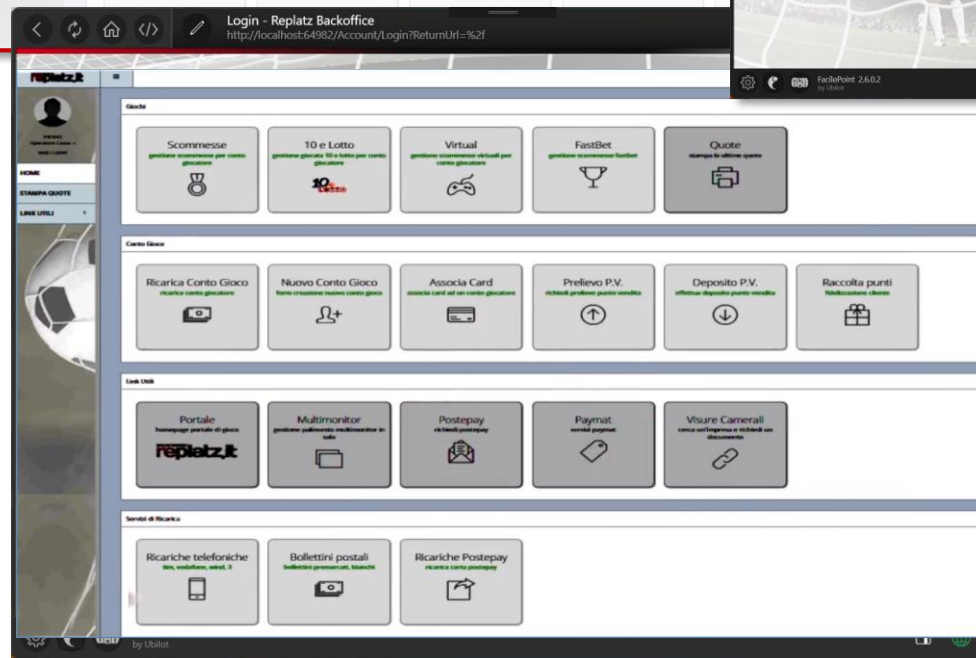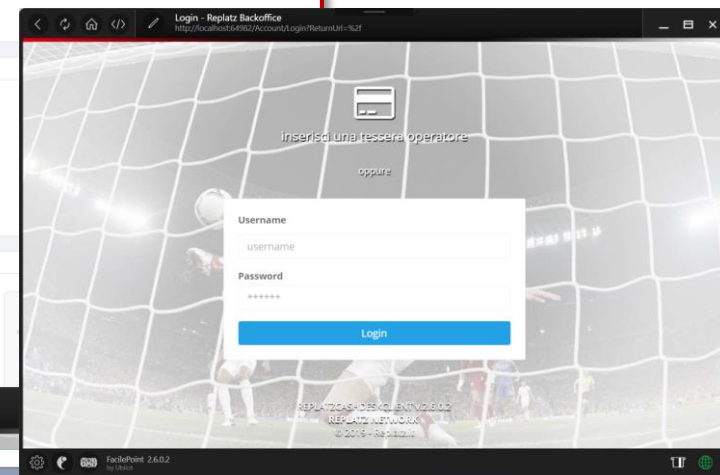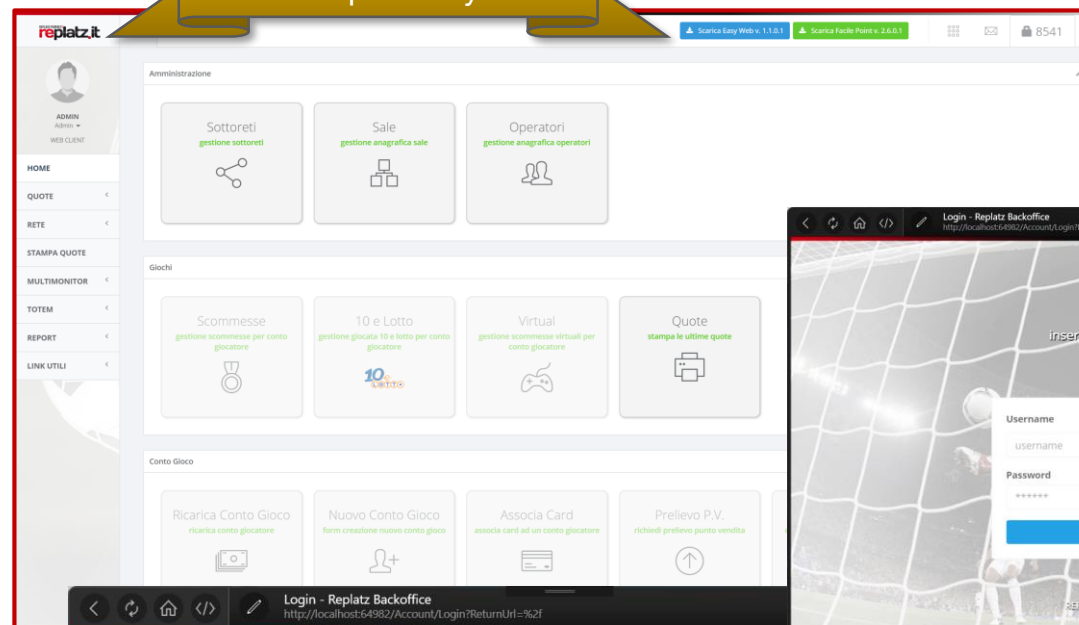
System running in more than 30 betting shops

▶ PLAY SHOWCASE

Main features:

- **Support for PSV and PSQF** Italian betting protocols (based on Exalogic platform)
- Innovative, fast and appealing UI allows the player to do more with less clicks
- **TiTo (Ticket In – Ticket Out) supported** for cash handling
- Betslip barcode win verification
- Recharge station module for self pcs
- **Integration with online account** operations via smart card reader (recharge, registration)

Additional features:

- Support for secondary touch screen monitor with fast virtual betslip proposals
- Background updates to minimize no-operation times
- Support for coin readers, bill acceptors, bill dispensers, barcode reader, smart card reader, printer

Showcase features:

- Presented in Enada Rome 2017 and Enada Rimini 2018
- Application >3x faster than competitors, with over 1000€ / day coin-in on average

Azure Cloud - WPF - C# - SQL Server – CCTalk - SignalR
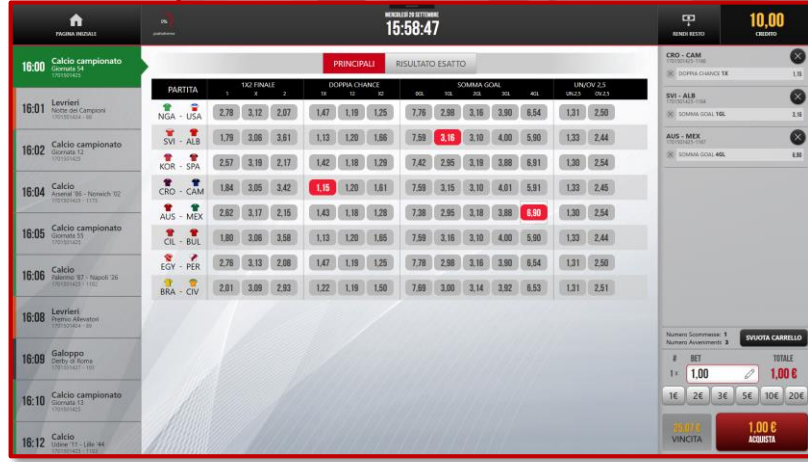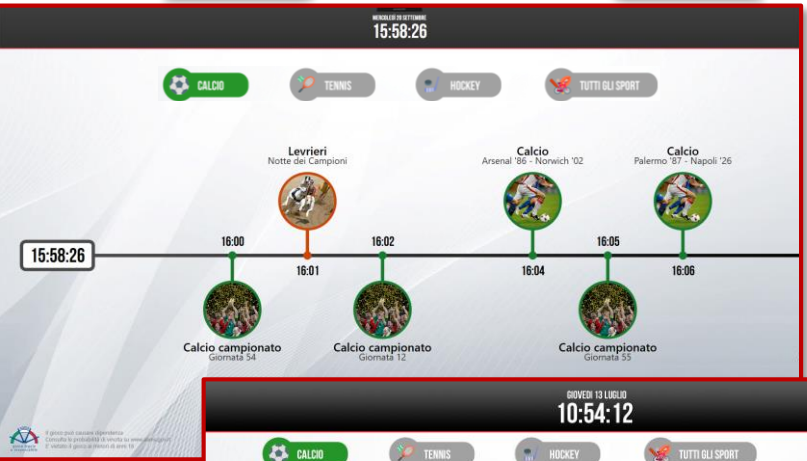
MICROGAME
## MULTI MONITOR & SELF CHARGE KIOSK

Multi-monitor features:

- Solution integrated with the central management system
- Based on low-cost hardware solution (Raspberry Pi)
- Horizontal scalability (no local server required, each monitor is directly connected to the main system)
- Advanced weekly/monthly scheduling system
- HTML, video, jpg content support
- Real-time content update and settings from central management system
- Advertisement management with template handling and scheduling
- Automatic scrolling feature for html contents

Self charge kiosk:

- Indipendent kiosk module for online account registration/recharge
- Support for coin reader / bill acceptor
- Support for fidelity player smart-card
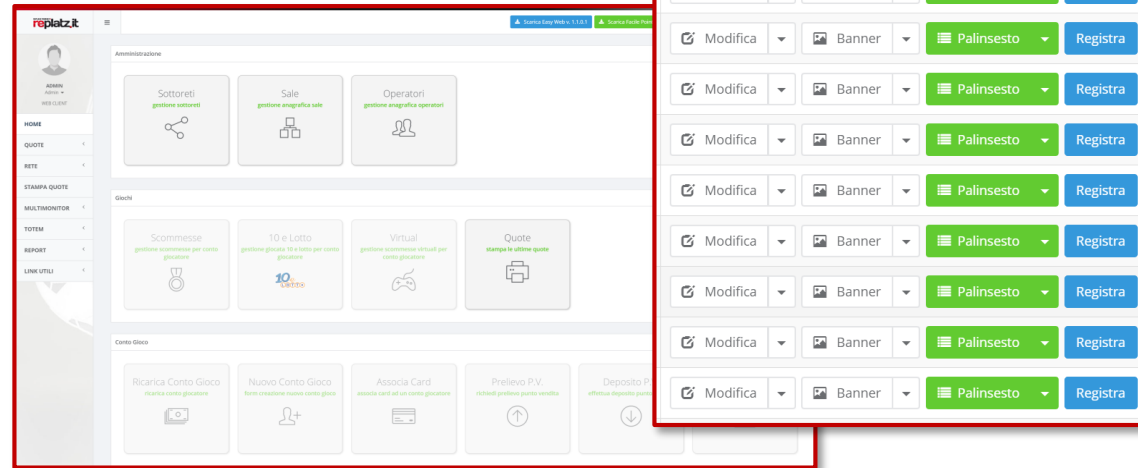
Azure Cloud - C# - Mono – Raspbian - SignalR

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PORTFOLIO – LAND BASED

AWP/VLT SDK for developing VLT/AWP games on PSM G640S. Cloud based remote hardware simulator and debugger to speed up development time. The SDK is GLI-11 ready.

Italian Comma 6A "Lucky Valley" slot. Based on PSM G640S board, developed in Unity game engine. Mathematic engine included. Porting for Android / iOS and HTML based system. Certification support.

Italian AWP Comma 6 (first law version, no smart card). Developed first Italian pc-based IMQ certified Comma6 multi-game slot machine for Italian AWP market

Low-cost gaming hardware. Based on Raspberri-pi compatible boards. Custom hardware interface for Jamma connector, CCTalk ports and anti-tamper switches and monitoring. ARM CPU and accelerated 3D graphics.
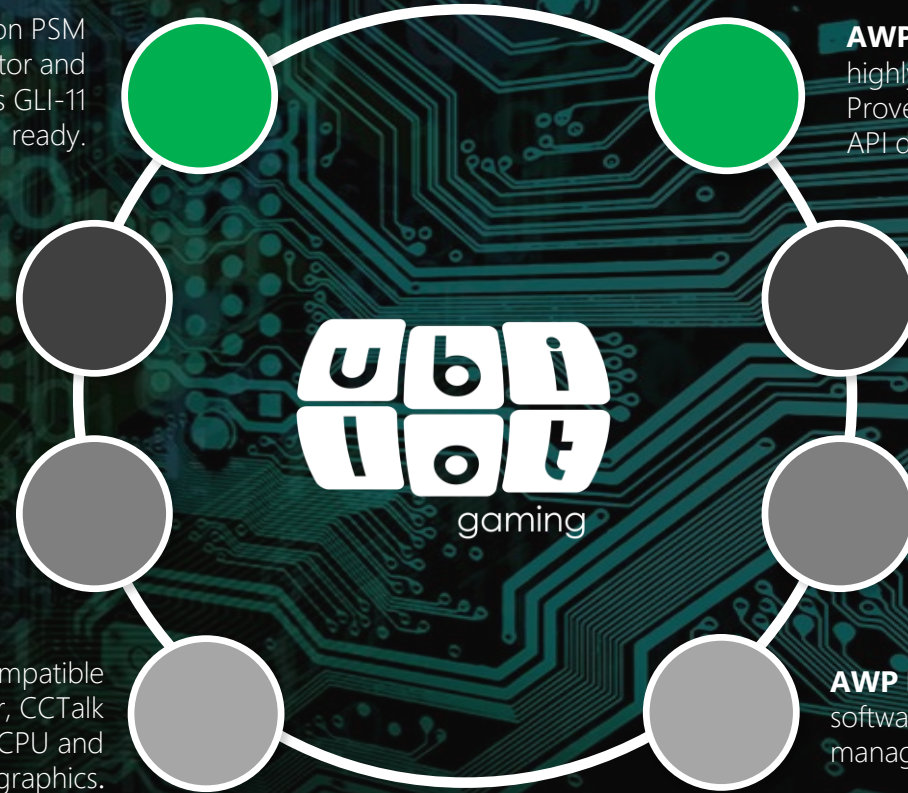
AWP Math module. Easily integrable AWP math module, highly configurable and customizable. Cross-platform solution. Proven reliability and return of investment. Easy and exhaustive API documentation.

CCTalk VLT payment engine. Cross platform solution. Money accepting and dispensing (coins, notes, tickets). Optional audit menu application with multiple user role management, machine contability, failure tolerant.

Italian comma 7C SDK. HTML based game engine, micro-service architecture. Runs on low-end hardware (e.g. Raspberri Pi based). Skin management, multiple game support.

AWP Network Manager. Management and monitoring software for Italian Comma 6A AWP networks. Counters management and verifications.

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## VLT SDK – SPAIN MARKET
## GLI-11 READY

VLT SDK features:

- Based on PSM G640S board
- Hardware simulator based on TCP protocol
- Simulators and debuggers accessible from remote
- Cross platform solution, runs on Linux and Windows
- SDK APIs client provided in C++ and C#, ready to be integrated
- GLI-11 ready solution

Audit menu application:

- Detailed accounting and meters management, GLI-11 ready
- Multi-level user management (operator, cashier, bartender)
- Hardware monitoring, diagnostic and configuration (refill, handpay, testing)
- Game history
- Event logs and alarms
- Browsable through physical buttons
- Documentation and technical manuals for certificators

Mono – C# - C++ - Windows Form - SignalR

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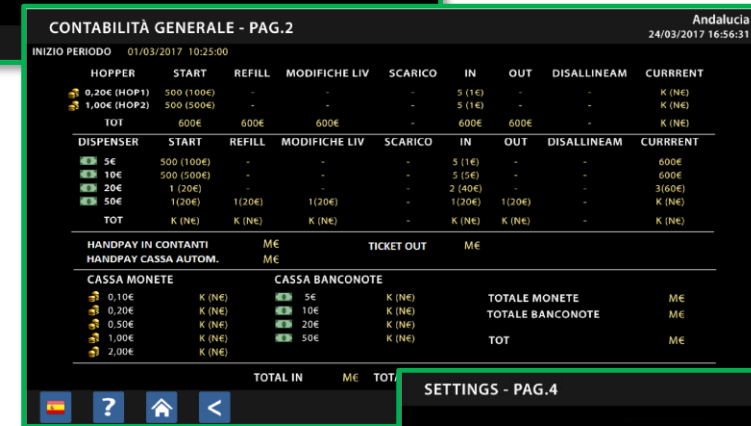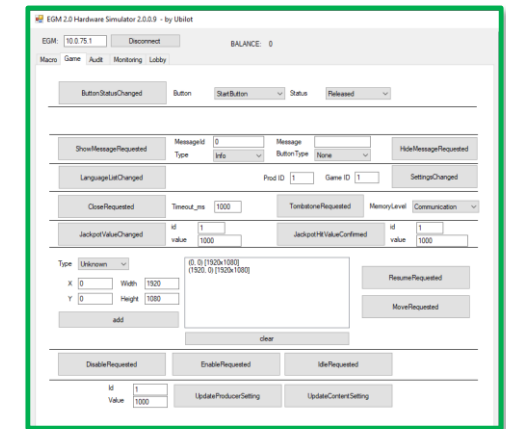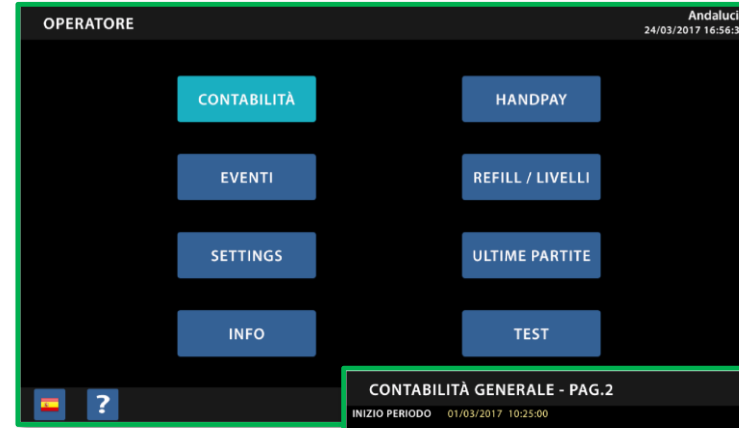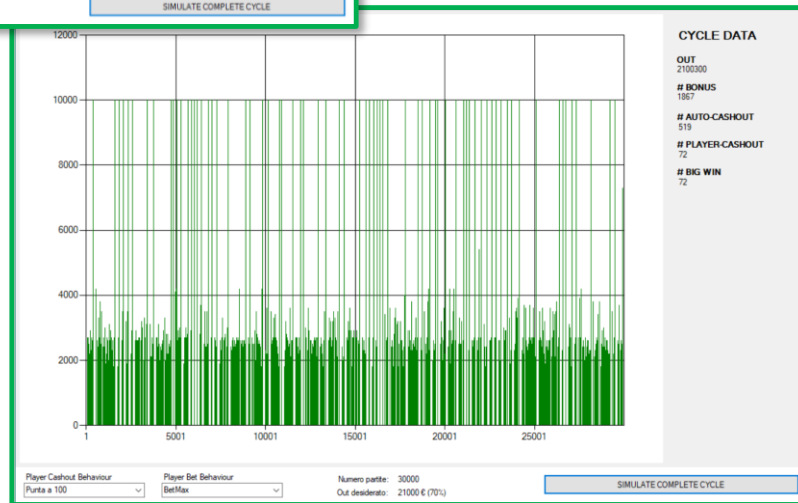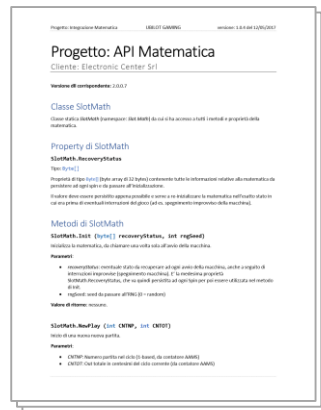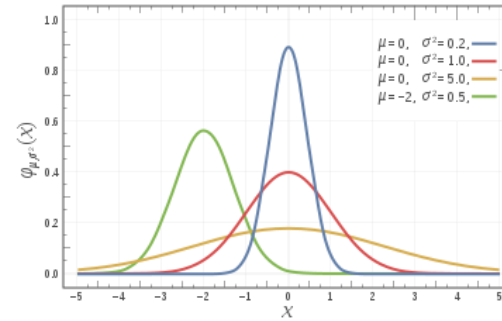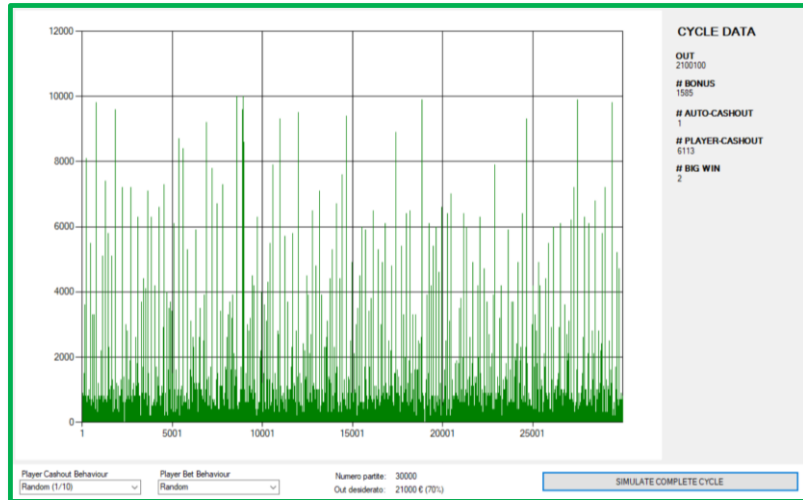
Main features:
- Specific for Italian AWP Comma6A market
- Cross platform solution
- Easily integrable, with examples and code snippets
- Low footprint library
- State of the art mathematic algorithm
- Highly configurable
- Full documentation with APIs description, configurations and examples
- APIs based on Italian Comma6A requirements and meters (CNTNP, CNTOT, etc)

Showcase features:
- Proven reliability
- First class high speed in outcome generation (single outcome generated in ~5ms, full 30.000 plays cycle generated in less than 3 seconds)
- High return of investment
- Player involvement, due to unpredictability and freedom of the algorithm
- Configurable end cycle management to minimize losses due to wins delivered over minimum legal out

C#

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COMMA 6A COMPLETE SLOT MACHINE SOLUTION

Comma 6A slot machine solution:

- Complete software solution provided all by Ubilot: hardware support, game engine, mathematics, graphic
- Based on PSM G640S board
- Developed in Unity game engine
- Mathematic engine included
- Porting for Android / iOS and HTML based system
- Certification support
- Audit menu
- Multi-games support
- Multi-skin games
- Innovative graphic with parallax effects and real 3D models

Mono – C# - Unity – CCTalk – Linux - SignalR
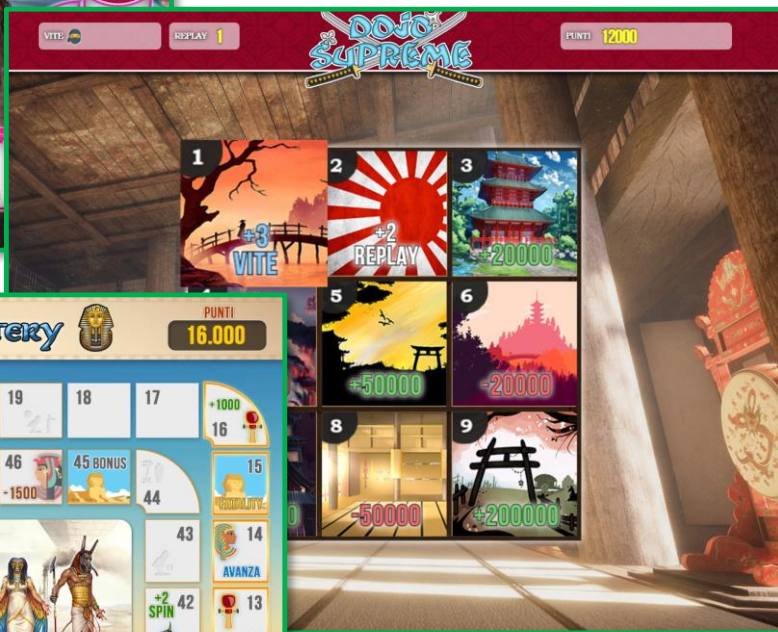
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HTML GAME ENGINE

Main features:

- Pure HTML 5 game engine
- Based on PixiJS framework (used also by NetEnt and other bigs)
- High performance (works on low-spec hardware like Raspberry Pi)
- Highly customizable
- Microservice structure for Game engine communication
- Easy integration with hardware or remote simulator / debugger
- Sprite / Video support
- Omni-directional audio support
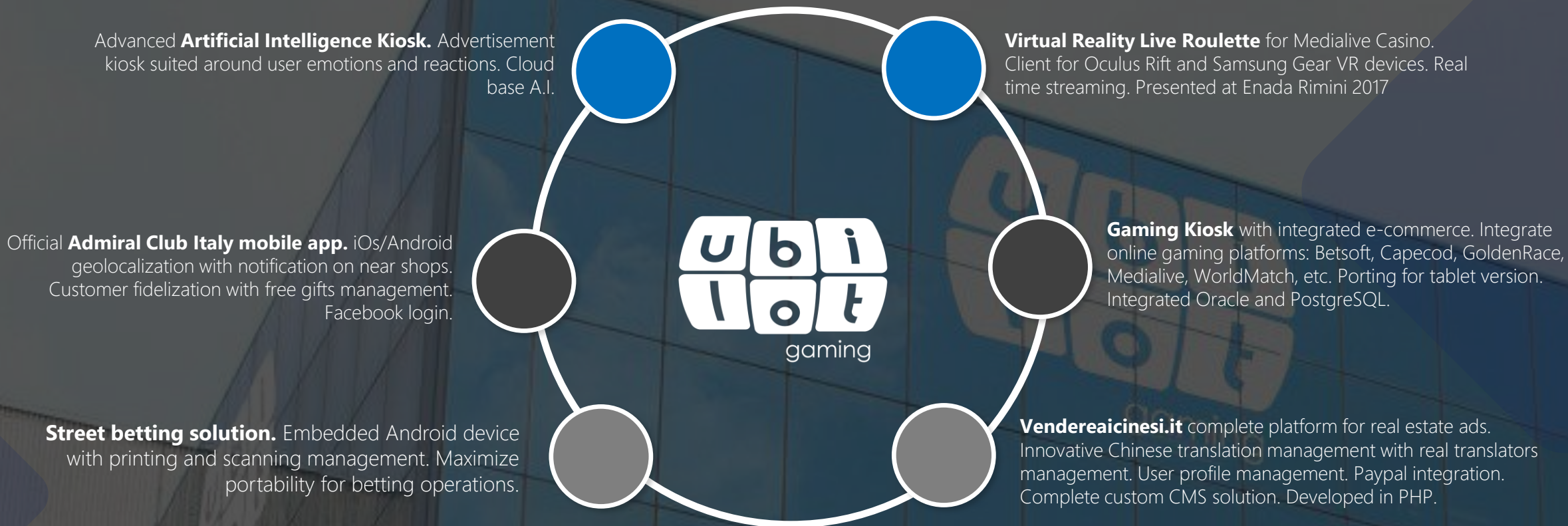- Typescript-based solution, high-level source code for fast maintenance and adaptations

Typescript - HTML – Pixi.JS – SignalR – Raspbian - Mono

▶ SHOWCASE

Advanced **Artificial Intelligence Kiosk.** Advertisement kiosk suited around user emotions and reactions. Cloud base A.I.

Virtual Reality Live Roulette for Medialive Casino. Client for Oculus Rift and Samsung Gear VR devices. Real time streaming. Presented at Enada Rimini 2017

Official **Admiral Club Italy mobile app.** iOs/Android geolocalization with notification on near shops. Customer fidelization with free gifts management. Facebook login.

Gaming Kiosk with integrated e-commerce. Integrate online gaming platforms: Betsoft, Capecod, GoldenRace, Medialive, WorldMatch, etc. Porting for tablet version. Integrated Oracle and PostgreSQL.

Street betting solution. Embedded Android device with printing and scanning management. Maximize portability for betting operations.

Vendereaicinesi.it complete platform for real estate ads. Innovative Chinese translation management with real translators management. User profile management. Paypal integration. Complete custom CMS solution. Developed in PHP.

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ADVANCED ARTIFICIAL INTELLIGENCE KIOSK

Artificial Intelligence Kiosk features:
- Cloud based Artificial Intelligence
- Identification of biometrics like sex, age, 6 different emotions
- Suggestions of the best product for the user
- Marketing strategy suited around the user personality and history
- Identification of attitude changes during the kiosk usage to maximize the user experience
- Anonymous identification of the user to collect history information
- Reports and data available from a central BackOffice solution

Gaming sector applications:
- Monitor emotions of the player and change graphics, mathematics or game mechanics consequently
- Game deactivation/selection or alarming in case of underage detection

C# - WPF – HTML – SignalR – Azure Cloud

▶ SHOWCASE
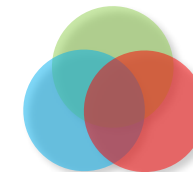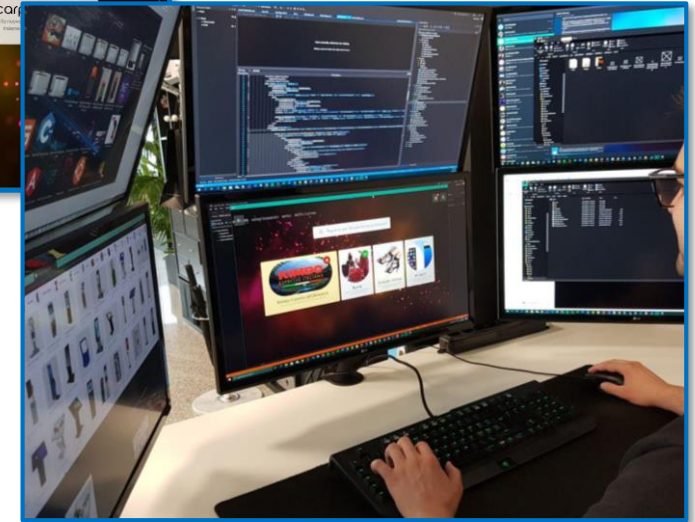
Hi!
Welcome back!

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SHOWCASE 1

SHOWCASE 2

LINK

PLAY STORE
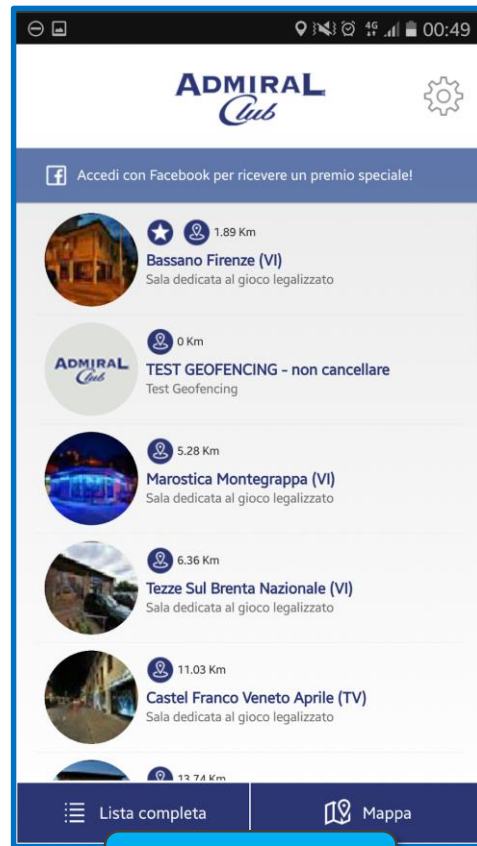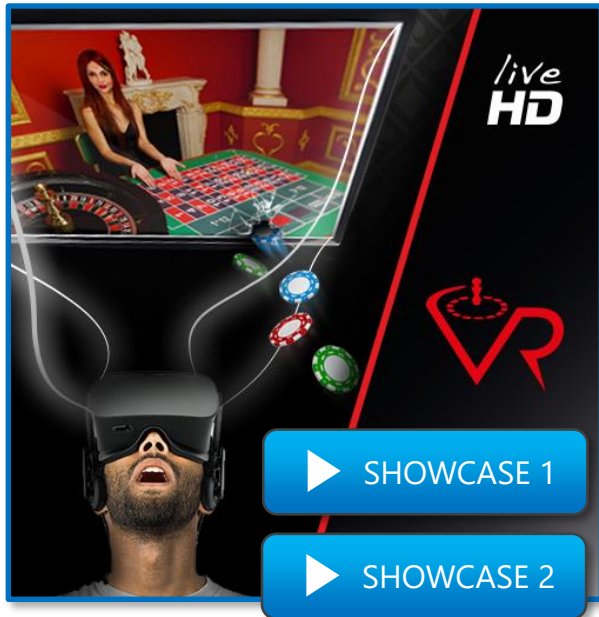
Virtual Reality Roulette features:
- Client for Oculus Rift and Samsung Gear
- Real time streaming
- Interactive 3D table
- Integrated with online player account
- Presented at Enada Rimini 2017

Street Betting solution:
- Embedded Android device
- Support for integrated printer and barcode scanner
- Online platform integration
- Super portable solution

Admiral Clubs Italy mobile app:
- iOS / Android application
- Geolocation with notification on near shops
- Customer retention with free gifts management
- Facebook login

C# - Android OS – Unity – Xamarin

Poker Platform. Complete multiplayer poker platform. Tournaments and cashgame management. Developed for the next generation Microgame People's Poker solution.

Poker client application. Texas Holdem multiplayer tournament application. Cross platform solution. Developed in WPF and JavaFX.

Poker mobile application. Developed for Windows 10 and Windows Phone devices. Intuitive touch-friendly UI. Hardware accelerated graphics and animations.

Poker Jamma. Jamma compatible poker board. Game client adaptation for use via standard Comma6 physical buttons. Custom hardware board development.

Electronic Poker tables. Multiple seats electronic poker table. Central monitor management.

RFID poker tables. Tables for live information broadcasting during poker events. Card RFID chip reading management.

PokerStars Europe POS Kiosk. Kiosk for Poker Tour live tournament subscriptions. Fast account creation via smart card reader.

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POKER JAMMA / POKER TABLE / POKER CLIENT / POKER TOTEM (2009)

Poker platform features:
- Complete multiplayer poker platform
- Tournaments and cashgame management
- Developed for the next generation Microgame People's Poker solution

Poker client features:
- Texas Holdem multiplayer tournament application
- Cross platform solution
- Developed in Flash, WPF and JavaFX.

Poker Jamma:
- Jamma compatible poker board
- Game client adaptation for use via standard Comma6 physical buttons
- Custom hardware board development

C# - WindowsForm – HTML – Azure Cloud

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MOBILE APPLICATIONS AND HONORS

2012 – Security Toolkit App
App for home surveillance, use your smartphone as a motion detection home alarm to monitor for intruders.

- 1st position on Top Paid Italian app ranking for many weeks
- 1st price for "Beat Innovative App" (Italy)

2012 – Turbo Camera App
World fastest burst camera app with 42 fps on a Nokia Lumia 800.

- 1st position on Top Paid USA, UK, Italy
- Awarded by Nokia Italia as one of the most successful Italian apps in the world (more than 500k downloads)

2013 – Intrusion Alarm App
Tablet optimized porting of the best seller Windows Phone App

- Entered the "Windows 8 Hall of Fame"

2014 – Animated Lockscreen App
First Windows Phone app showcasing animated lockscreen capabilities on Windows Phone 8.1

- Record of 100k download per day

2014 – Movie Maker App
First Windows Phone app with video editing capabilities

- 1st position on Top Paid USA, UK and 70% of world's Nokia marketplace
- 1st position on Top Paid China for more than a month (record for non-Chinese app)
- MoJo challenge – Movie Maker Pro is the official Windows Phone editor application

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MOBILE APPLICATIONS AND HONORS

2014 – Band Sensor Monitor App
Real time data streaming from Microsoft Band to a cloud based system

Children's National Hospital (Washington) select Band Sensor Monitor app to monitor in real time a drug study for degenerative disease

2014 – Nasa collaboration
Collaboration with Nasa (Clearview working group) to develop a high performance image capture module, based on Nokia Lumia 1020 lenses to monitor astronaut skin contamination

2015 – Instagraph App
First unofficial Instagram client application developed for Nokia, Blackberry and Symbian platforms

Top paid application world-wide for months

3 millions app downloads milestone

2015 – Microsoft Redmond collaboration
Access to top partners and influencers programs (less than 65 companies worldwide).

Invitation as Speakers at Microsoft's Build in San Francisco
https://channel9.msdn.com/Events/Build/2015/3-634

2016 – Mediaset on demand official App
Video streaming Windows 10 application for all Mediaset shows.

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UBILOT SRL - USER EXPERIENCE

Consulting and analysis on User Experience and modern User Interface / logo design

THANK YOU