



# QA and Testing Expertise

Timspark



# What is Timspark

A custom software development boutique with a special business model that ignites and fosters full-fledged development teams and inspires every engineer to deliver outstanding results.



**Core Teams**



**Understanding of industry & business domain**



**High-quality teams with a proven expertise**



**Teams are highly motivated**



**Accountability and ownership within the teams**

# Quick facts

30+

teams onboarded

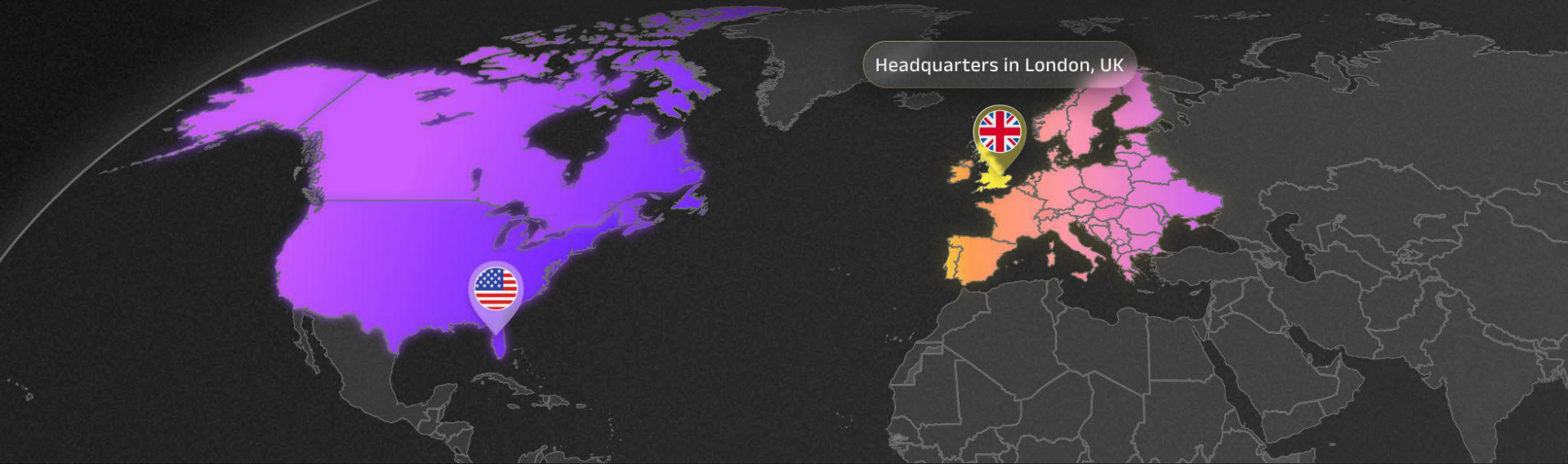
1000+

vetted engineers involved

800+

projects  
accomplished

Headquarters in London, UK





# Key information

Certified development centers in

**Poland, Lithuania, Georgia**

Headquarters in

**London, UK**



Global 200+ client base covering following industries:

Finance

Banking

Healthcare

eCommerce

Education

Logistics

Transportation

Manufacturing

# Industry verticals



Finance, banking and insurance



Logistics, supply chain and transportation



Architecture, construction and real estate



Healthcare and life sciences



Tourism and hospitality



Energy, oil and gas



eCommerce and retail



Media and entertainment



Public services and utilities



Education



Telecommunications



Agriculture



Manufacturing



Business management



Art and culture



Automotive



HR and recruiting



Ecology





# Our services

Timspark provides professional services around **bespoke software**:



## Full-cycle product development

- ✦ We deliver a premium market-ready product that meets your customers' needs, from conceptualization to the design phase to final production and launch.



## IT-Consulting

- ✦ With our technology audit and consulting expertise, we offer holistic guidance, identify areas for improvement, and develop effective strategies to meet your business needs.



# How you can work with us

We are flexible. At Timspark, we offer different engagement models, from full-fledged teams to staff augmentation, to help you achieve your current business needs.



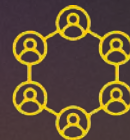
## Team augmentation

Skilled engineers to enhance your in-house team



## Dedicated teams

Development units built specifically for your project



## Core Teams

Pre-built development teams with deep expertise



# End-to-end QA processes

Throughout the development pipeline, we adhere to continuous quality assurance.

Our main goal is not only simply identify inconsistencies, errors, and flaws through testing but also focus on defining vulnerabilities at early stages and preventing further occurrences.



**01**

We are dedicated to safeguarding and enhancing project quality throughout the software development lifecycle.

**02**

We understand the QA processes and technologies, establish efficient collaboration and foster flawless development cultures.

**03**

Driven by the same goal of trust and respect, QA is every team member's responsibility at Timspark.





# QA team key facts

We aim to eliminate vulnerabilities at the early stages of development with well-established QA processes, efficient collaboration, and QA provision among all the parties involved.

**16**

years  
of experience

**100+**

QA engineers

**300+**

projects  
delivered

**85%**

senior  
& middle

Automation QA engineers

**41**

Manual QA engineers

**64**



# How we ensure quality

- ◆ Best quality practices and procedures.
- ◆ Established quality assurance workflow.
- ◆ Regular process audits, continuous improvement.
- ◆ Peer code reviews.
- ◆ Regular project review meetings.

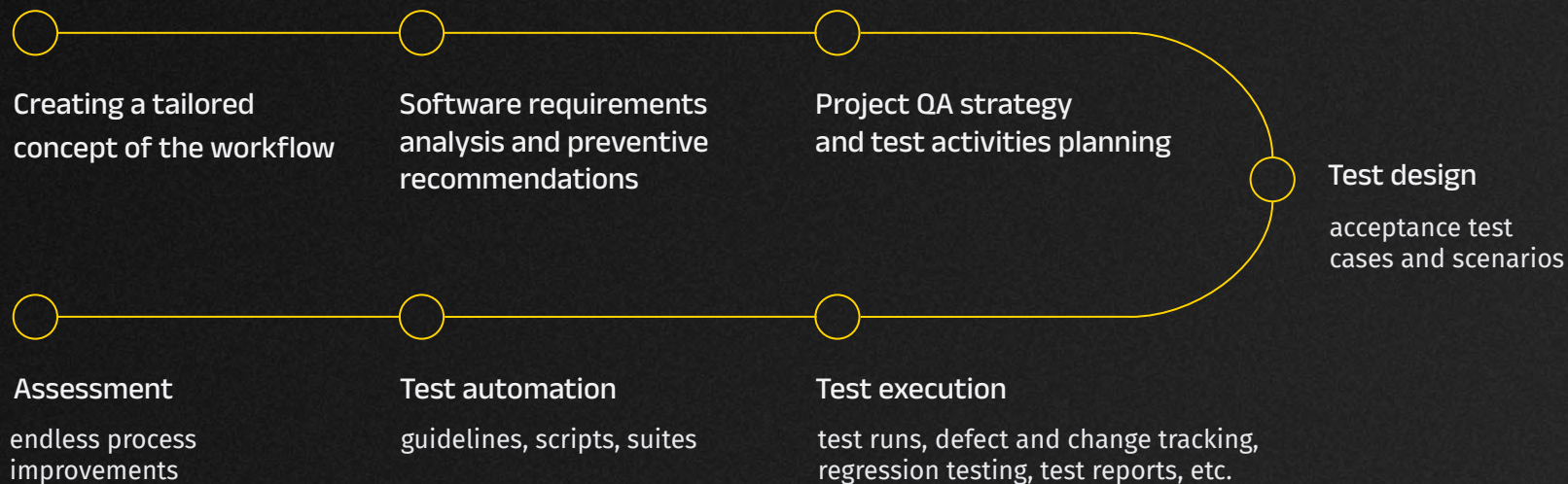


- ◆ High code coverage with unit tests.
- ◆ Testing automation added to CI/CD pipeline.
- ◆ Compliance with global standards: ISO 27001, ISO 9001, OWASP, ISTQB.
- ◆ Left-shift testing approach.
- ◆ Review of software compliance.



## Established quality assurance workflow

## KEY STEPS OF OUR SOFTWARE QUALITY ASSURANCE AND CONTROL WORKFLOW



# Our software QA services

PART 1/2

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## Software quality assurance

We gather all project data, define and implement software development and QA processes.

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## Software QA automation

As a result of project goals and constraints, we define the required testing automation to accelerate processes and reduce costs.

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## Software quality assessment

Our QA engineers test and audit software architecture to define weak and strong points.

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## Quality assurance consulting

We provide professional advice and consult businesses on the most relevant QA processes and test approaches.



# Our software QA services

PART 2/2

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## **CI/CD integration**

We help integrate QA solutions for continuous integration and delivery systems, defining conditions and triggers for autotests.

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## **Dedicated QA teams**

We have specialized teams for full-cycle project assessment, testing and quality assurance.

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## **QA outsourcing**

As an alternative to hiring a whole team, we can arrange an outsourcing initiative that will yield high-quality results for a lower price.

# Types of software we test



Web application testing



Mobile application testing



Desktop application testing



IoT testing



SaaS and cloud testing



Microservices testing



Database testing



Enterprise software testing



Other custom software testing



# Quality assurance tools

PART 1/2

## Test/defect tracking tools

Mantis, Atlassian JIRA, Elementool, Redmine, MTM, Bugzilla, VersionOne, YouTrack, Rally, QATouch.

## REST/HTTP API clients

DHC, Advanced rest client, Postman, Swagger, Fiddler, Charles.

## Test case management system

TestLink, JIRA plugins, Quality Control, Qase, Testrail, Clickup.

## Automated web testing tools

Selenium WebDriver (PhantomJS), Selenium IDE, Selenium Builder, SoapUI.

## Continuous integration tools

Jenkins, TeamCity, Vercel, bitbucket, azure, github actions, gitlabCi, CircleCI.

## Test automation frameworks

SpecFlow, Cucumber, Bellatrix, RobotFramework, custom frameworks, Frameworkium.



# Quality assurance tools

PART 2/2

## Tools for security testing

Nmap, OWASP ZAP, Kali Linux.

## Building tools for automated testing

Ant/NAnt/CppAnt, Maven, Grunt.

## Unit testing frameworks

NUnit, MsTest, Mocha, PyTest.

## Debugging tools

Browser specific developer tools.

## Version Control system

Git, SVN, Github.

## Version control systems

DHC, Advanced rest client, Postman, Swagger, Fiddler, Charles.





# How can QA benefit your business?

## Excellent quality

We deliver software solutions with perfect functional performance, impeccable user experience, and reinforced security.

## Cost-effectiveness

Our range of individually tailored services help our customers save time and money on testing without sacrificing quality.

## Faster delivery

We help clients accelerate development and production cycles through an early-stage testing approach.

## Relevant expertise

We test solutions of any complexity, from traditional web apps to complex databases, SaaS, and enterprise-grade platforms.

## Complex approach

In addition to testing, we help identify roadblocks in advance, reduce errors, cut costs, and speed up the development process.

## Enhancing user experience

As part of the testing process, our QA engineers consider all the processes from the end user's perspective.



# Technologies

## BACK-END



JAVA



GO



PYTHON



RUBY



.NET/C#



C/C++



NODE.JS



RUST



PHP



UNITY

## FRONT-END



REACT



ANGULAR



VUE.JS



JAVASCRIPT



TYPESCRIPT

## MOBILE



SWIFT



KOTLIN



FLUTTER



REACT  
NATIVE



XAMARIN,  
.NET MAUI

## PLATFORMS



AWS



AZURE



GCP

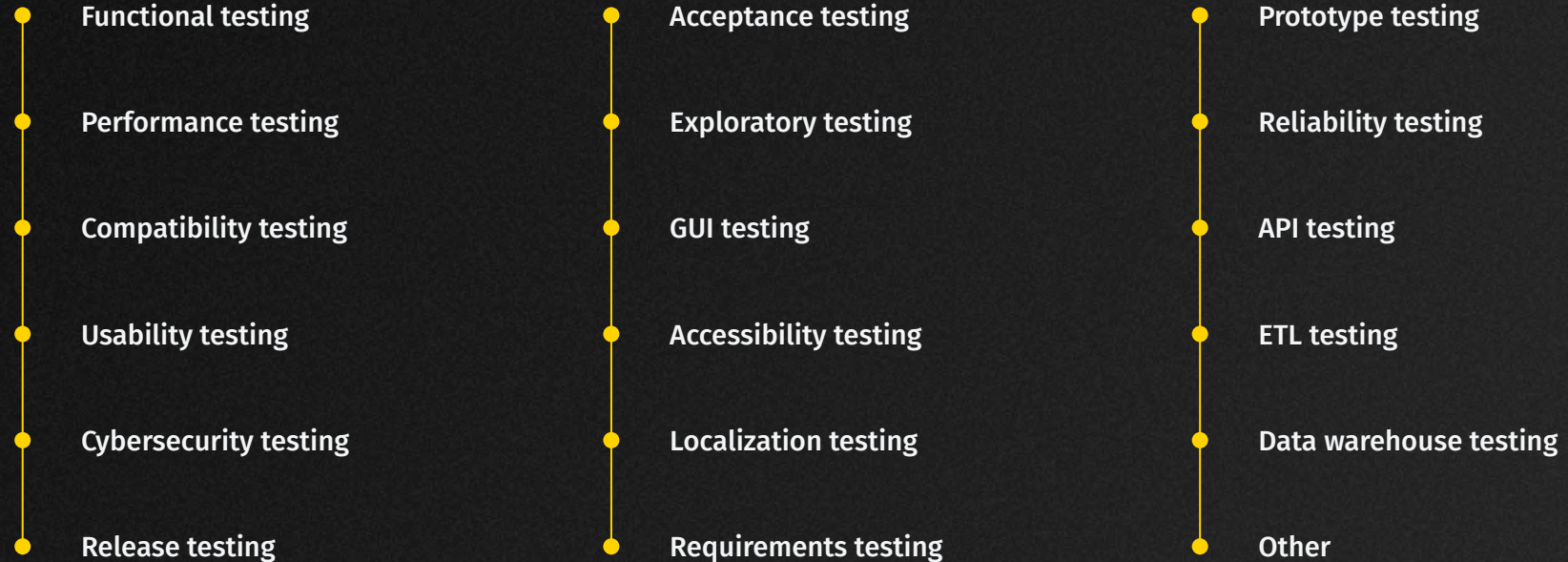


SAP



SALESFORCE

# QA and testing types



# Automated QA

## Automated testing

- ✦ Unit testing
- ✦ Component testing
- ✦ Integration testing
- ✦ User Interface testing
- ✦ End-to-end testing
- ✦ Compatibility testing
- ✦ Contract testing
- ✦ Performance testing

## Automation test levels we cover

- ✦ Smoke testing
- ✦ Sanity testing
- ✦ Regression testing
- ✦ Acceptance testing





# Our automated QA services

Through automated testing services, we streamline the quality of software development by pointing out rough edges, facilitating efficient processes, and defining proper test coverage.

## Unit testing

We finesse software source code line by line, testing the underlying sets of software modules individually.

## Component testing

Through in-depth component testing, we facilitate the achievement of high-quality performance.

## Integration testing

To ensure productive, reliable functionality, we ensure all system modules are integrated efficiently.

## User interface testing

We ensure accessible, convenient, and eye-catching user interfaces that stand out from the rest and boost brand recognition.

## End-to-end testing

Our experts give you confidence that all system modules and interfaces meet user requirements and needs to the fullest capacity.

## Compatibility testing

Our cross-platform, multi-device testing outlines how well your solution performs across multiple platforms and devices.

# QA test management tools

## Test management and bug tracking

Jira, Xray, PractiTest, Rally, Azure DevOps, TestRail, testlink, MTM, Qase, Clickup.

## QA and manual testing

Testlodge, Zephyr, Testlink, Trello, Jira, Basecamp, Sauce Labs, Browser Shots, Browser Stack, Soap UI, Postman, REST, assured, CloudApp, Skitch, Fiddler, Charles.

## Mobile testing

TestComplete, Android Studio, xCode, Charles, Appium, Xamarin.UITest, Carina.

## Quality assurance consulting

Postman, Swagger, Apigee, Citrus API, Fiddler, Charles, Catalon Retrofit.





# Why choose Timspace as a QA provider?

01

Efficient software development process with all-around QA coverage.

02

Full-scope testing for products of any purpose and complexity.

03

Access to the market-defining testing and QA tech stack.

04

Cost-saving opportunities streamlined by thorough software polishing.



# How we communicate

Our communication is built on principles of transparency, accountability, and trust. We are quite flexible in the matters of communication schedule and frequency.

We create a personalized communication strategy for each project and you can decide which means and time span of communication is best for you.



## Daily

short stand-ups with project managers and dev teams



## Weekly

video calls or written reports that track the project's progress



## Monthly

core meetings with detailed reports and plans for the next iteration



## On-demand

brainstorming or problem- solving sessions

# Instant payments mobile app

BANKING

FINTECH

## CHALLENGE

Native iOS and Android applications serving as a digital wallet for instant peer-to-peer payments.

## SOLUTION

Within the app, users can make requests for payment (e.g., to split a restaurant bill), pay through QR codes, make money transfers, and more. The app provides information about account balance and stores the history of payments.

Beginning with the conceptualization, layouts, and requirements, the QA team from Timspark accompanied all phases of the project lifecycle. To detect problems early and fix them as cheaply as possible, we focused on shift-left testing.

Furthermore, our QA engineers checked the application and personal data for safety and security.

\* The image is illustrative. Project details cannot be disclosed due to the conditions of NDA between the Development Team and the Customer.

## TECHNOLOGIES AND TOOLS

Jira, Zephyr, Developer tools, Fiddler, CharlesProxy, BeyondCompare, ZAP Scanner, JMeter, AWS.





# Mobile banking app

BANKING

FINTECH

## CHALLENGE

Mobile app allowing users to access advanced spectrum of fintech services.

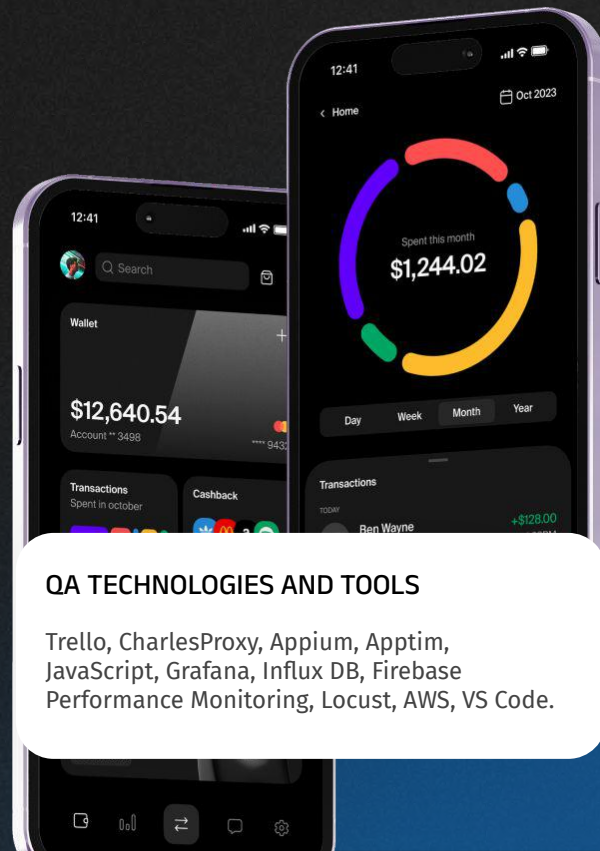
## SOLUTION

Mobile application including a large-scale full-cycle trading platform and a business center for B2B and B2C, offering loans, deposits, trust management and other options.

Our QAs joined the project after the MVP stage, collecting data about the app and formalizing all collected information into a testing strategy and plan. It was the team's responsibility to maintain all new functionality and perform regression testing on previously developed functions. Main user cases and integration checks were automated to speed up and reduce development costs.

Over the next half a year, the team's capacity increased from 20 story points to 35, facilitating the product roll-out and eliminating scope creep.

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## QA TECHNOLOGIES AND TOOLS

Trello, CharlesProxy, Appium, Apptim, JavaScript, Grafana, Influx DB, Firebase Performance Monitoring, Locust, AWS, VS Code.



# Tax payment application

BANKING

TAXES

## CHALLENGE

The first-of-its-kind app integrated with the largest bank allows self-employed people to control and pay their taxes.

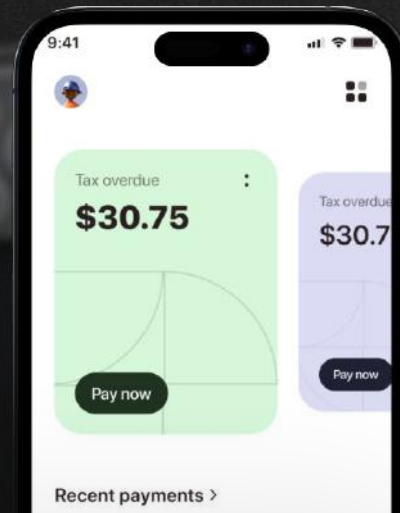
## SOLUTION

The solution provides interaction between self-employed people and the Federal Tax Service online, without requiring a personal visit to the tax office.

Our QA team joined the project 2 months before the release, with the main task to meet all functional and non-functional requirements, achieve good usability scores, eliminate interface issues, and ensure robust security and performance.

We thoroughly tested and reviewed the entire system, and the last iteration was devoted to fixing priority defects and stabilizing the build for release.

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## QA TECHNOLOGIES AND TOOLS

Appium, Apptim, Stf, Firebase Performance Monitoring, Xcode Instruments, XCTest with measureBlocks, JMeter, Distributed Load Testing on AWS, Prometheus, Grafana.

# Trading mobile application

BANKING

INVESTMENT

## CHALLENGE

Android and iOS mobile application for managing investment assets.

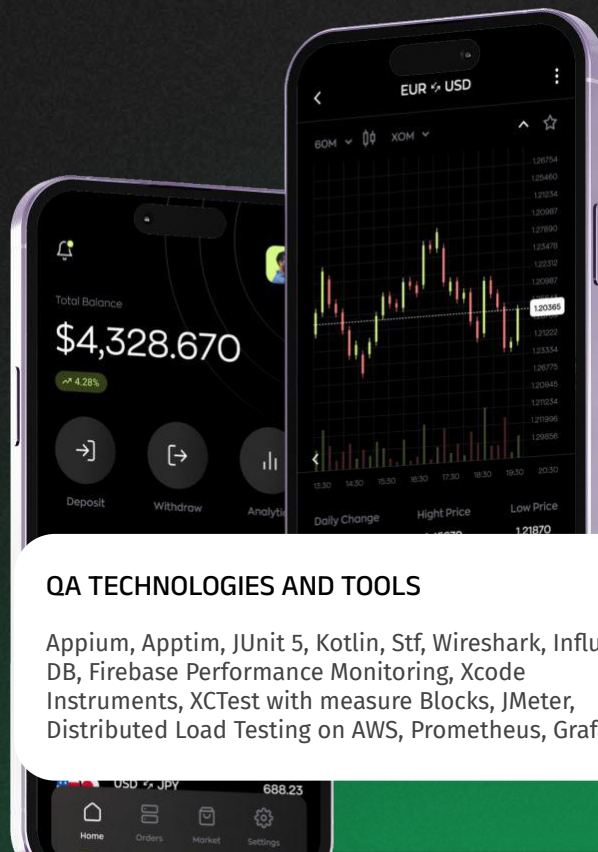
## SOLUTION

In the application, users can remotely select, buy, change and redeem shares.

To guarantee fail-proof performance, we conducted all-round fault tolerance and reliability testing. As a possible peak load, our QA specialists selected 50000 requests per minute. Furthermore, we increased the load to peak values and checked for defective requests and timeouts. Ultimately, our system responds in less than one second.

As part of the reliability test, we chose 80% of the peak load, with periodic increments (once per hour) up to the critical points.

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## QA TECHNOLOGIES AND TOOLS

Appium, Apptim, JUnit 5, Kotlin, Stf, Wireshark, Influx DB, Firebase Performance Monitoring, Xcode Instruments, XCTest with measure Blocks, JMeter, Distributed Load Testing on AWS, Prometheus, Grafana.

# Loan management application

## BANKING

### CHALLENGE

Loan management solution to facilitate lending processes.

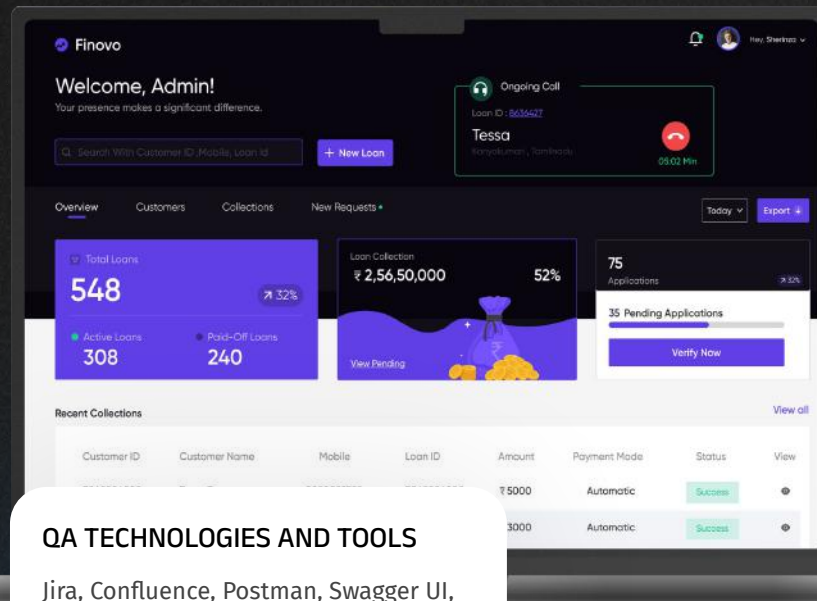
### SOLUTION

Timspark has taken over the landing platform development project. Our team has delivered a top-tier loan management system with rich functionality to facilitate lending processes.

Our engineers conducted functional testing in terms of business logic and UX, testing responsive design, web interface. Our company also analyzed and expanded the coverage of the Automation suite.

- API testing for rudimentary features in terms of protecting user data.
- Optimizing the Automation Suite Architecture
- Testing integrations with 3rd party services in the field of providing transaction history, KYC / KYB, credit history and rating, monitoring loan payments, doing business (ERP).

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### QA TECHNOLOGIES AND TOOLS

Jira, Confluence, Postman, Swagger UI, PostgreSQL, DevTools, Figma, DBeaver, TestRail.



# Intent-based chatbot

TELECOM

## CHALLENGE

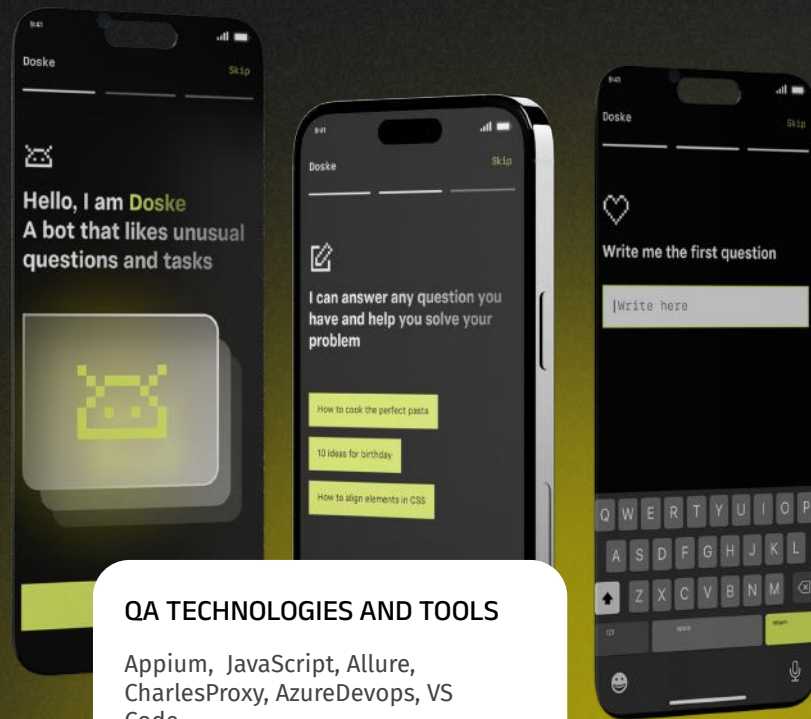
Real-time chatbot that answers customer queries in a human-like manner.

## SOLUTION

Timespark has built an intelligent chatbot using intent-based models and scripts for user requests to alleviate operators' workload.

From the very first iteration, QA began testing new and previously developed features, while simultaneously aggregating general information about the system, business, user, and functional requirements. In the second iteration, QA provided the test plan and strategy, synchronizing the processes with the project team. By the end of the development cycle, the team performance had increased by 40% as a result of the QA recommendations.

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## QA TECHNOLOGIES AND TOOLS

Appium, JavaScript, Allure, CharlesProxy, AzureDevops, VS Code.

# AI driven call enter software

TELECOM

AI

## CHALLENGE

AI-based call center software for a big telecom company that connects operators and clients within a unified system.

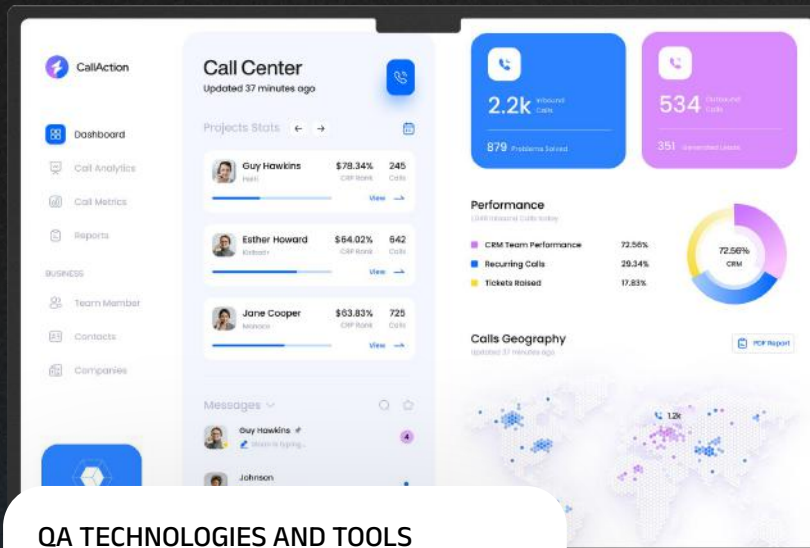
## SOLUTION

Timspark has forged a robust AI-based call center automation software that processes calls from clients through AI-automated voice recognition and request identification.

QA was directly involved in the training and validation of ML algorithms, executing full end-to-end custom scripts testing and automation. We provided the main test coverage at the API level.

To ensure error-free functioning, we simulated a load of up to 7000 calls per minute. During performance testing, our QA engineers ramped up the load to peak values, checking for defeated requests and timeouts.

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## QA TECHNOLOGIES AND TOOLS

Appium, Apptim, Grafana, Influx DB, Firebase Performance Monitoring, XCTest with measure Blocks, Jetpack Macrobenchmark, Locust, AWS, Prometheus.



# Telecom security system

CYBERSECURITY

TELECOM

## CHALLENGE

Telecom security system for the large US-based telecommunication services provider.

## SOLUTION

As the company expanded into new regions and the number of users increased, the system began to fail and slow down. To address the issue, our QA team was engaged to perform load testing and identify bottlenecks in the system.

Thus, we conducted all-round fault tolerance and reliability testing. As a possible peak load, our QA specialists selected 50000 requests per minute, 50% of which were large data fragments (> 100 MB). Furthermore, we increased the load to peak values and checked for defective requests and timeouts to guarantee fail-proof performance.

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## QA TECHNOLOGIES AND TOOLS

Appium, Apptim, JUnit 5, Kotlin, Stf, Wireshark, Influx DB, Firebase Performance Monitoring, Xcode Instruments, XCTest with measure Blocks, JMeter, Distributed Load Testing on AWS, Prometheus, Grafana.



# OCR driven app for text scanning

OCR

TELECOM

## CHALLENGE

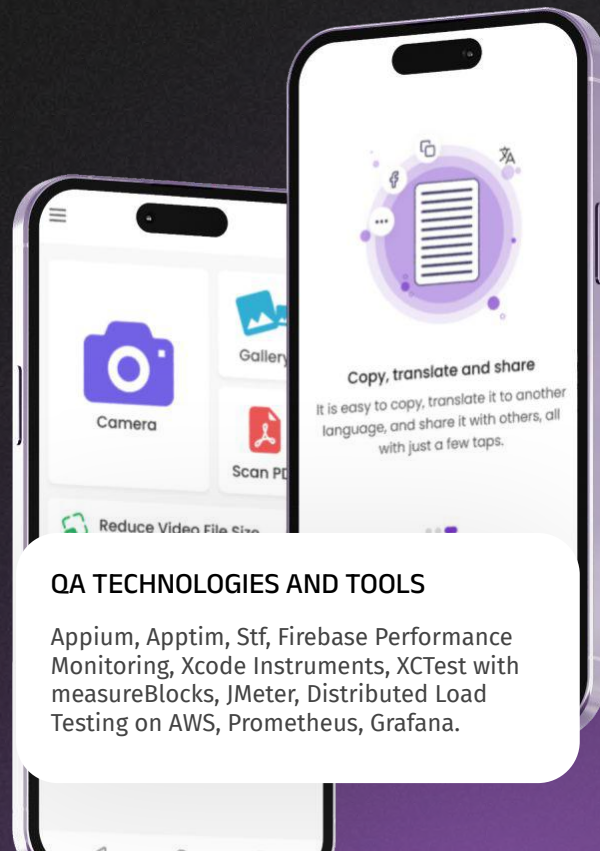
OCR tool that recognizes text from a photo or image and turn it into machine-encoded text, reducing the burden of paperwork.

## SOLUTION

On this project, Timsark QA team fully accompanied all phases of development, covering functional and non-functional requirements, QA processes integration, and autotest system coverage.

For performance testing, we chose 500 requests per minute, 20% of which were resource-intensive cases (uploads with poor image quality). As part of the fault tolerance testing, we ramped up the load to the peak value to ensure that the failure rate was not more than 2% of the total. This allowed us to release a quality solution on time and maintain a high speed of development.

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## QA TECHNOLOGIES AND TOOLS

Appium, Apptim, Stf, Firebase Performance Monitoring, Xcode Instruments, XCTest with measureBlocks, JMeter, Distributed Load Testing on AWS, Prometheus, Grafana.

# Decision support system

IT

BUSINESS INTELLIGENCE

## CHALLENGE

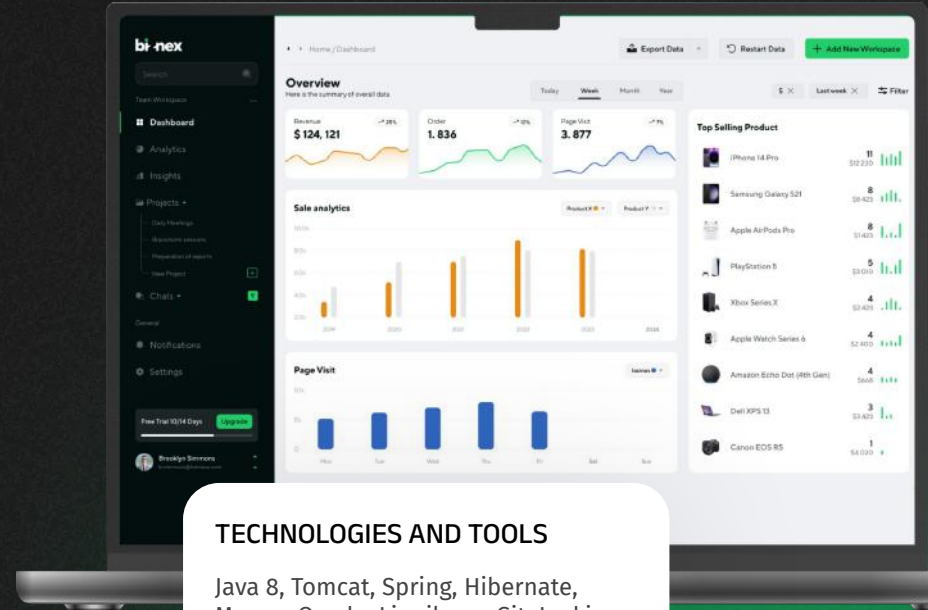
Timspark has developed a smart solution that helps managers make informed decisions.

## SOLUTION

Decision support system is a platform that helps leaders of large companies save time and cost through monitoring the efficiency of corporate information technology area. The system analyzes IT applications, equipment and operations, provides information on costs, risks, and priorities and predicts the impact IT has on revenues, and more.

On the final stage, our QA team maintained manual/automated testing, regression testing, security testing, smoke testing, formal and Ad hoc testing, supporting business requirements and testing documentation to deliver a flawless product tailored to customer's needs.

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## TECHNOLOGIES AND TOOLS

Java 8, Tomcat, Spring, Hibernate, Maven, Oracle, Liquibase, Git, Jenkins, Apache Tiles, JSP, AngularJS.



# Video conference system

## COMMUNICATION

### CHALLENGE

A multi-functional video conference system for web, iOS and Android.

### SOLUTION

The solution offers wide functionality, including organizing presentations and conferences, customization with user's templates, board and chat usage during a conference, video recording, managing contacts list, etc.

Our QA team accomplished:

- Functional and smoke testing of the system's web part and version for mobile devices;
- Preparation of reports on testing;
- Documentation on the found bugs and checking of the corrected bugs;
- UI, manual testing and negative testing;
- Requirements analysis and documentation;
- Preparing and correction of user guides.

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### TECHNOLOGIES AND TOOLS

Flash, Java, GWT, Android SDK, Android, iOS, VersionOne, JIRA, Confluence, TestLink.



# Wellness portal

SPORTS

HEALTHCARE

## CHALLENGE

Wellness portal to engage in sports activities and enjoy a healthy lifestyle.

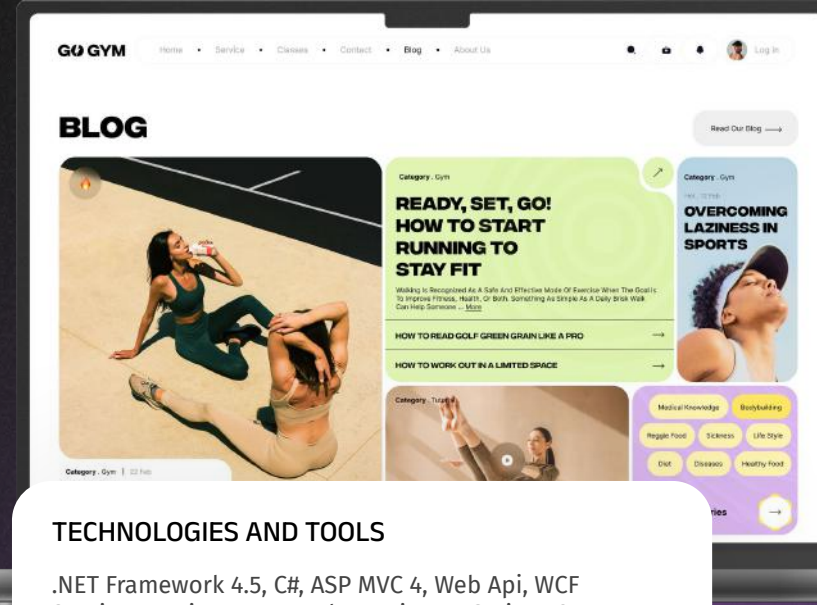
## SOLUTION

Our project team has built a wellness portal which helps companies to organize sport activities and healthy lifestyle for their employees.

The work was arranged according to classic Agile methodology. Testing specialists were essential participants of all project meetings, including Scrum, kick-off, pre-grooming meetings and especially demo presentations that followed each release.

Automated tests were used for regression testing for all the previously implemented functionality. This automated test project integrated with TeamCity to trigger test run after each build and generate report send to target dev teams.

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## TECHNOLOGIES AND TOOLS

.NET Framework 4.5, C#, ASP MVC 4, Web Api, WCF Services, Entity Framework, NUnit, JavaScript, JQuery, AJAX, AngularJS, MS SQL Server 2008, Git, TFS, INTELLIJ, Selenium 2.9.1, TestNG, Apache Maven, Java 1.8.

# Mobile app for car remote control

## AUTOMOBILE

### CHALLENGE

Advanced solution for motorist to manage their cars remotely.

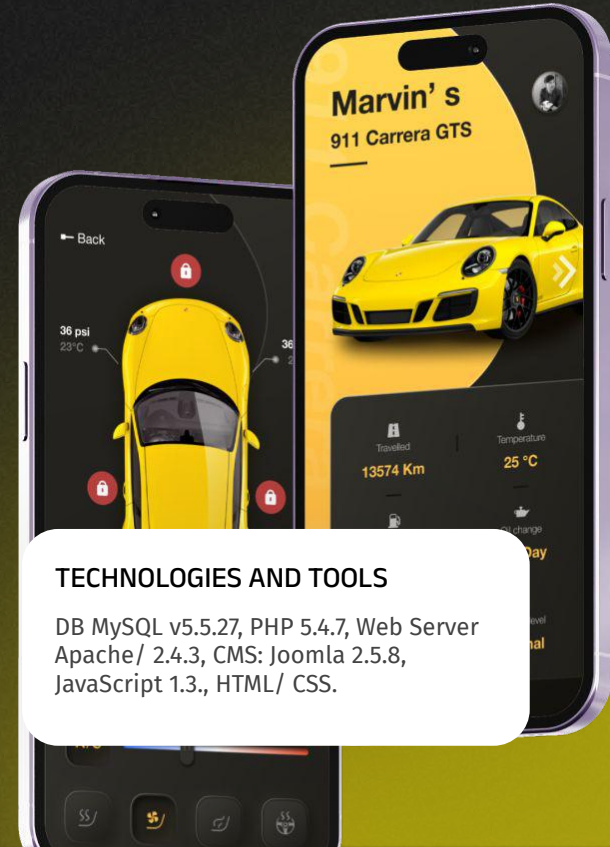
### SOLUTION

Our company has launched the application intended for starting and stopping the car engine remotely, tracking the car route, monitoring car security and safety while driving and when the car is parked via smartphone.

As for the quality assurance, our specialists accomplished functional testing, UI testing, smoke testing, bug regression, security and access control testing, building test reports and documentation, reporting found issues and retesting addressed issues, and preparing guides for system reports.

As a result, we launched a feature-rich solution to manage car remotely, ensuring increased security for drivers.

\* The image is illustrative. Project details cannot be disclosed due to the conditions of NDA between the Development Team and the Customer.



### TECHNOLOGIES AND TOOLS

DB MySQL v5.5.27, PHP 5.4.7, Web Server Apache/ 2.4.3, CMS: Joomla 2.5.8, JavaScript 1.3., HTML/ CSS.



# Mental health online services

## HEALTHCARE

### CHALLENGE

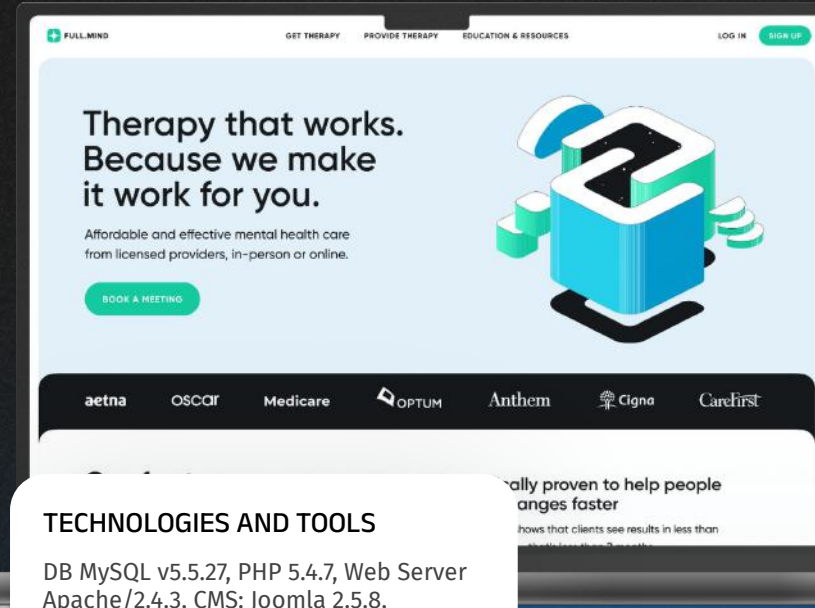
Web service to address health issues and receive medical care.

### SOLUTION

Timspark has developed a website for mental health services online via mobile devices that provides diagnostic tools, self-administered screening tests, treatment programs online, guidelines, self-help tools, videos and workbooks, interaction with experts in virtual private offices, tools progress tracker to record and analyze symptoms, moods and activities, and many more.

QA team accomplished functional and smoke testing of the system's web service, reports on testing, documentation on the found bugs and checking of the corrected bugs, UI, manual and negative testing, requirements analysis and documentation, and preparing/correction of user guides.

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### TECHNOLOGIES AND TOOLS

DB MySQL v5.5.27, PHP 5.4.7, Web Server Apache/2.4.3, CMS: Joomla 2.5.8, JavaScript 1.3, HTML/CSS, PayPal API.



# Web app to track physical activity

SPORTS

FITNESS

## CHALLENGE

Web application where users can monitor their physical activity and track fitness progress.

## SOLUTION

Our company has built a smart web solution that includes fast registration and synchronization of fitness devices with the website, displaying statistics of activities for various periods, tracking progress, completing assignments, and communication with other users.

As for the quality assurance, our specialists conducted smoke and functional testing, bug regression, security and access control testing, automation testing (writing and running automation tests), preparation of reports on testing to ensure unmatched product quality.

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## TECHNOLOGIES AND TOOLS

.NET Framework 4.5, C#, ASP MVC 4, Web Api, WCF Services, Entity Framework, NUnit, JavaScript, JQuery, AJAX, AngularJS, MS SQL Server 2008, Git, TFS, INTELLIJ, Selenium 2.9.1, TestNG, Apache Maven, Java 8.

# Website for smart dog collars

## E-COMMERCE

### CHALLENGE

Redesigning the website for dog smart collars promotion.

### SOLUTION

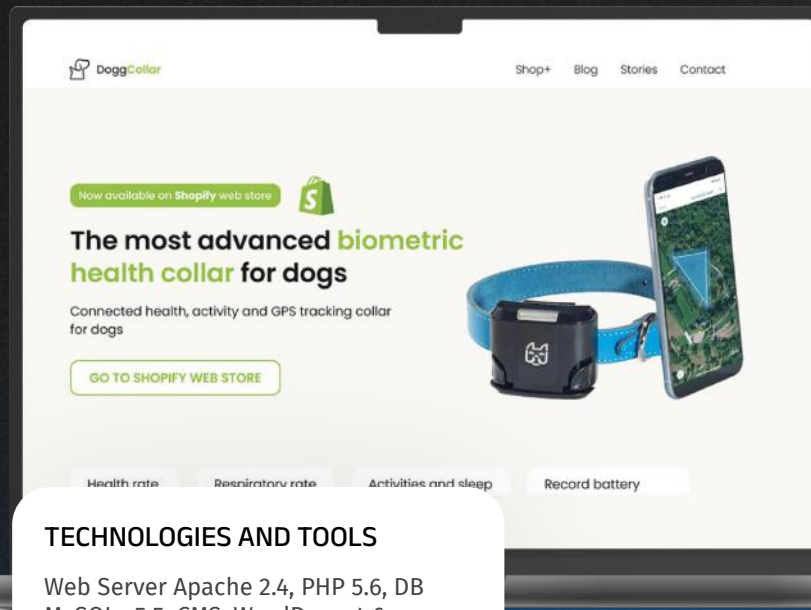
The goal of the project was to completely redevelop a website for dog smart collars promotion and integrate it with an already existing Shopify web store. Throughout the project, our dedicated software engineers were responsible for:

- UI/UX design;
- Registration panel;
- Customers gallery (with pictures of dogs wearing smart dog collars).

In turn, our QA team accomplished functional testing, UI testing, smoke testing, bug regression, documentation on the found bugs and checking

of the corrected bugs.

\* The image is illustrative. Project details cannot be disclosed due to the conditions of NDA between the Development Team and the Customer.



### TECHNOLOGIES AND TOOLS

Web Server Apache 2.4, PHP 5.6, DB MySQL v5.5, CMS: WordPress 4.6, Bootstrap framework, jQuery, HTML5/CSS3, SASS, Gulp.

# Web application for decision-making

## BUSINESS INTELLIGENCE

### CHALLENGE

Web app that aid managers in making insightful decisions based on employees' performance.

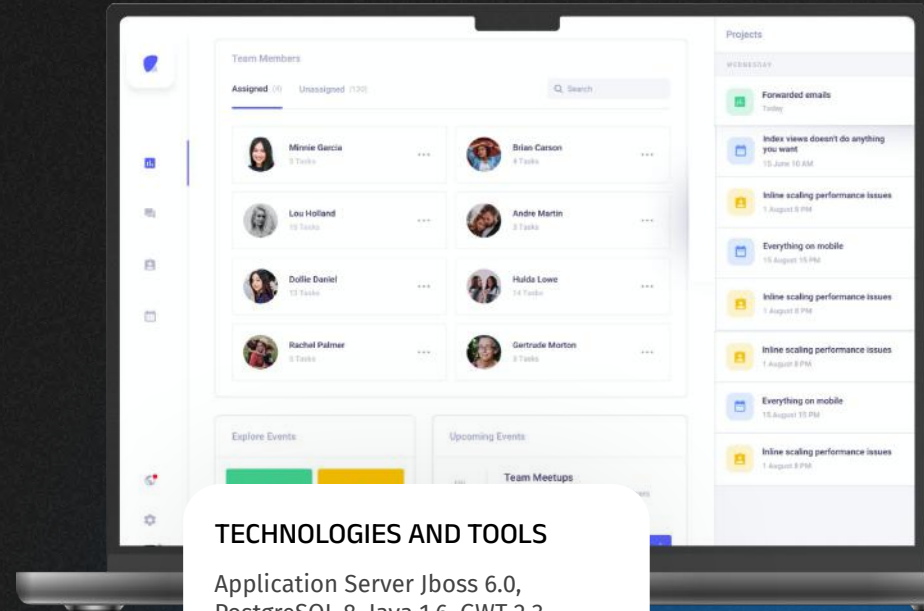
### SOLUTION

Timspark has developed a web-application that assists CEOs in making decisions regarding encouraging or punishing employees of groups, teams, or collectives.

The application is realized so that employees could create a poll of some type in which they can add all possible participants and spectators.

Our QA team created and edited test cases, performed functional testing, compatibility testing, smoke testing, created load test cases in JMeter, conducted loading tests, automated tests, prepared reports on testing, documented found bugs, and checked the corrected bugs.

\* The image is illustrative. Project details cannot be disclosed due to the conditions of NDA between the Development Team and the Customer.



### TECHNOLOGIES AND TOOLS

Application Server Jboss 6.0,  
PostgreSQL 8, Java 1.6, GWT 2.3,  
SeleniumRC + TestNG, Apache  
JMeter.



# Real estate web platform

## BANKING

### CHALLENGE

Developing web modules for real estate financing platform.

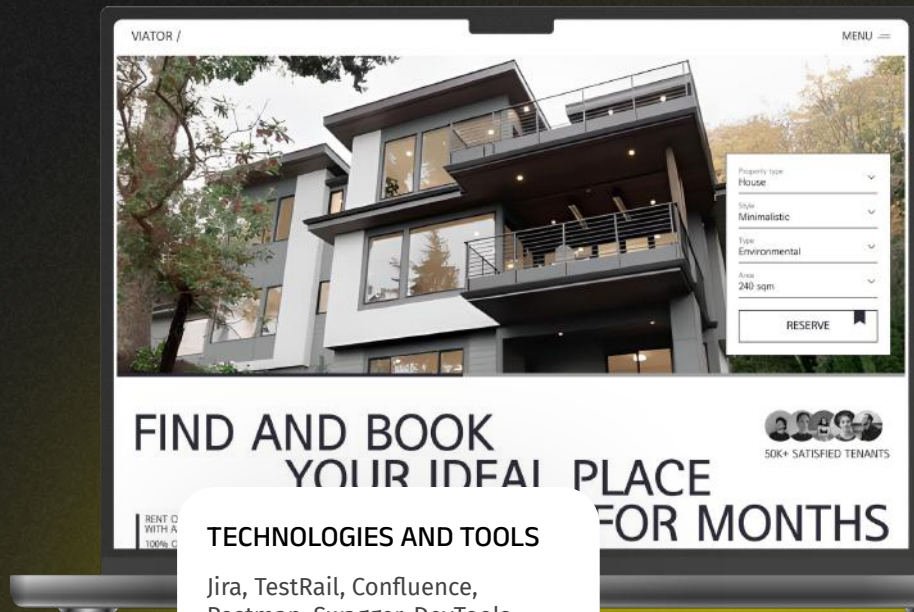
### SOLUTION

Timspark was engaged in quality assurance procedures aiming to ensure proper development processes of the module of state subsidies for real estate financing.

Our team performed the following activities:

- determination of a test strategy, test plans, goals, risks, analysis of requirements and all bank documentation for the project;
- covering the module with test checks at the integration (backend / frontend) and system levels;
- manual functional/non-functional testing;
- participation in PI Planning, providing the necessary information to product managers for a product demo.

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# Marketing campaign tool

SOCIAL

MARKETING

## CHALLENGE

A web platform that helps to manage marketing campaigns.

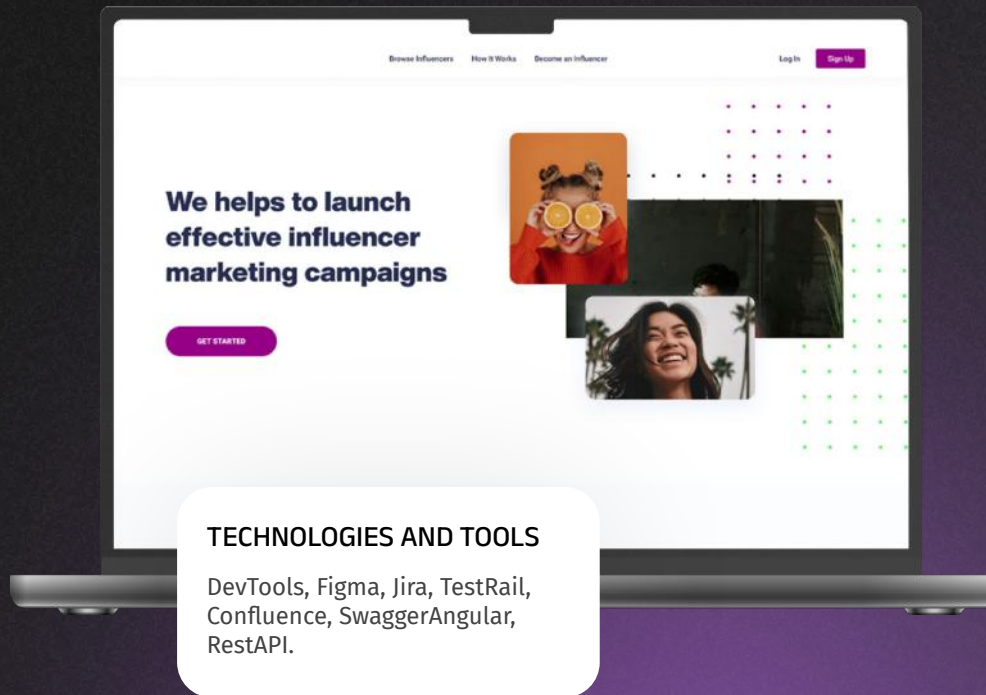
## SOLUTION

Timspark has developed a top-notch web platform for marketing campaign management. The application includes a user-friendly campaign builder and several campaign management tools.

Both functional and non-functional testing activities were carried out. For example, cross-browser testing, localization testing, usability testing, and more. In addition to manual testing (i.e. UI testing, requirements testing, database testing, and API testing), we applied for automated testing.

In the process of API testing, we also wrote test collections in Postman, which were embedded in the CI/CD system by DevOps and run during each commit.

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## TECHNOLOGIES AND TOOLS

DevTools, Figma, Jira, TestRail, Confluence, SwaggerAngular, RestAPI.



# NFT marketplace

## NFT MARKETPLACE

### CHALLENGE

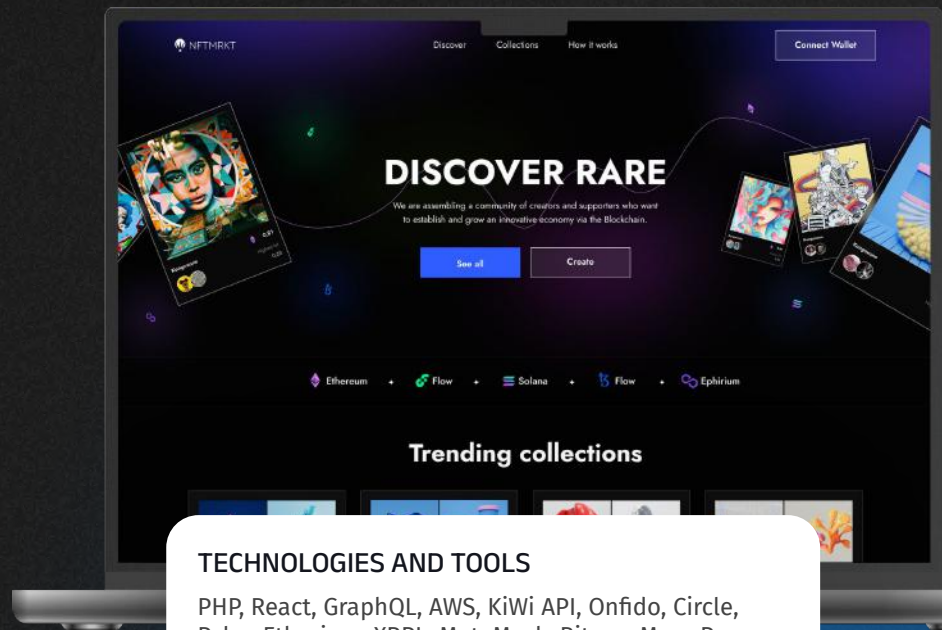
The application helps popular brands create, sell, purchase and trade NFT tokens among themselves.

### SOLUTION

The solution is a marketplace where you can buy unique NFT tokens from popular brands. The assets can be obtained through an auction directly from the brand, or purchased from other users who resell them at a fixed cost.

Following the client's request, we developed NFT tokens, created animated 3D models, ensured the option to sell tokens through smart contracts, and more. QA part included functional tests, UI tests, API tests, smoke tests, integrations with third-party payment/KYC services, bug regression testing, and documentation on the found bugs and bug fixes.

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### TECHNOLOGIES AND TOOLS

PHP, React, GraphQL, AWS, KiWi API, Onfido, Circle, Palm, Ethereum, XRPL, MetaMask, Bitpay, MoonPay, Blockchain, JIRA, Confluence, Qase, Figma.



# Web 3.0 gaming environment

METaverse

3D

## CHALLENGE

Collection of unique NFT avatars and immersive gaming environment for a motorcyclist community.

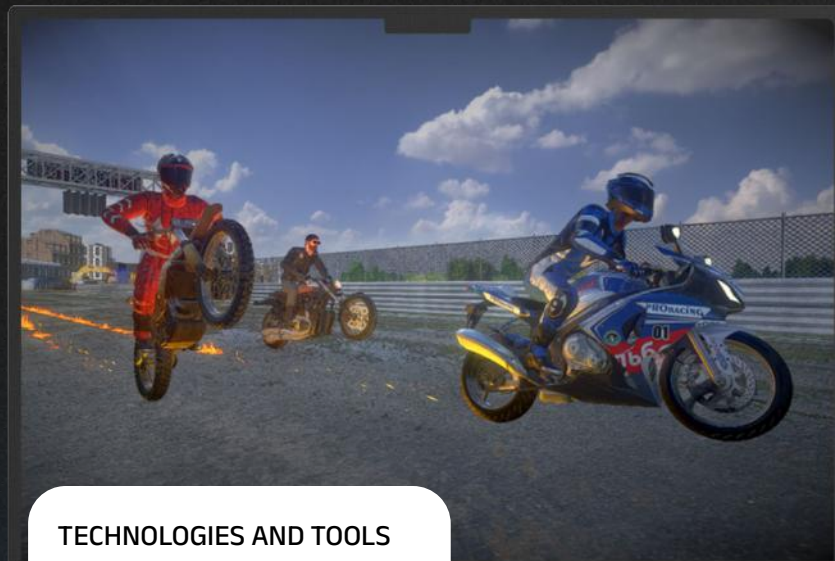
## SOLUTION

Timspark has partnered with a close-knit community of motorcycle fans who purchased spaces in the metaverse Sandbox and ordered to create unique NFT avatars and game environments using 3D design. Our talented designers built a famous racing track in metaverse from scratch, allowing users to explore and monetize in-game artefacts based on the Ethereum network.

Throughout the project, our 3D artists engaged in 3D modeling and texturing, graphics integration, and character/clothes rigging and skinning.

During quality assurance, we tested the game logic and space as well as the GUI ecosystem.

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## TECHNOLOGIES AND TOOLS

VoxEdit, GameMaker, MagicVoxel, Blender, Slack, Performance Monitor, VR, Jira, Google Docs, Notion.

# ML-based asthma management app

HEALTHCARE

ML

AI

## CHALLENGE

A simple and affordable ML-powered asthma management tool that helps both physicians and patients with asthma.

## SOLUTION

The project goal was to create an app that would help patients to manage their disease in an intuitive way. Also, the app provides data for physicians to evaluate the patient's state and adjust treatment.

Users can let the exclusively taught ML algorithm listen to how they use inhalers. Also, they can see the risk of asthma symptoms based on evaluation of various triggers like weather, humidity, etc.

During QA sessions, our specialists performed functional testing, smoke testing, requirements testing, mobile testing, new feature testing, re-test, regression testing, exploratory testing, and GUI testing.

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## TECHNOLOGIES AND TOOLS

Python, Dart, Flutter, Django, PostgreSQL, Scikit-learn, Pandas, BorutaPy, Hyperopt, Plotly, AWS (S3, EC2, Redshift, Sagemaker, Glue), Redis, Docker, Docker Compose.



# Geo-based NFT platform

BLOCKCHAIN

NFT

## CHALLENGE

The geo-based NFT platform, allowing users to mint and sell NFTs to a broad community.

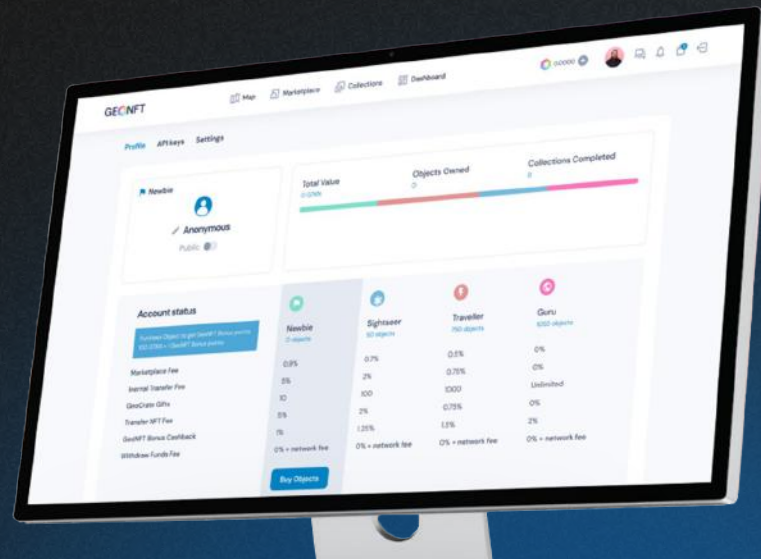
## SOLUTION

Timspark has developed a feature-rich platform for managing geo-based NFT assets and a custom token. The solution allows users to operate digital items via personal accounts, the marketplace, and the interactive map.

Our project team integrated OpenStreetMap to present the world's map with interactive NFT assets, built NFT marketplace for users to re-sell their assets, and augmented the product with the built-in cryptocurrency exchange.

To ensure flawless product quality, our QA engineers completed functional, usability, GUI, and compatibility testing.

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## TECHNOLOGIES AND TOOLS

ava 17, Spring Boot, Spring Data, Spring Cloud Gateway, React, Redux, Redux-Saga, Reselect, PostgreSQL, EOS, Fiddler, AzureDevops, Devtools.



# Mobile app for active traveling

## TOURISM

### CHALLENGE

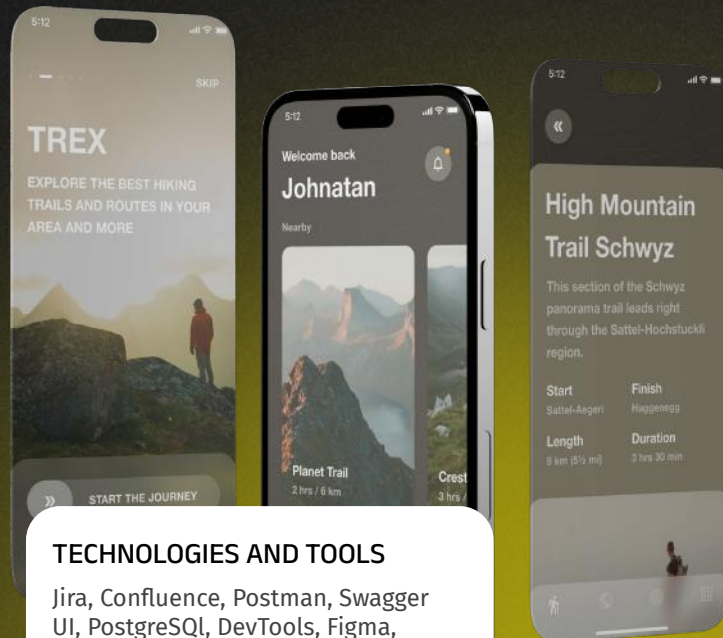
Mobile app that allows outdoor enthusiasts enjoy hiking, biking, etc.

### SOLUTION

The iOS & Android app helps hikers, bikers and paddlers explore the most popular trails and routes around the world.

The travel guide app contains detailed waypoints and town guides: water sources, shelters, campsites, accommodation, restaurants, resupply, and more. Using GPS, the app guides travelers along the trails and towns even if mobile devices are offline. Our engineers were engaged in functional and non-functional testing, as well as tested various types of requirements. Our team was also involved in RC (release candidate) testing, cross-browser and cross-platform testing, API testing, localization, UI testing, compatibility testing, usability testing, etc.

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### TECHNOLOGIES AND TOOLS

Jira, Confluence, Postman, Swagger UI, PostgreSQL, DevTools, Figma, DBeaver, TestRail.

# Keen to **explore** this further?

Let's discuss your requirements and come up with a tailored solution!

At Timspark, we intend to bring value and competitive advantage to our clients. Our dedicated teams can help you achieve your goals and add value to your offerings.

## REACH OUT



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