G2L: TECHNICAL SOLUTIONS

What do G2L offer?
- Full health check of your IT practices
- Outsourced IT tech. support
- System, data and security solutions
- Development of innovative full stack, low code, and embedded systems

documentation and project management
analysis; specification and architecture
design, development and integration
User Acceptance Testing and support

FULL LIFE CYCLE

METHODOLOGIES
- Agile
- Waterfall
- RAD

TYPICAL SYSTEMS
- Client
- Client Server
- Embedded

TYPICAL HARDWARE
- Desktop
- Mobile
- Bespoke device

Find out more
www.g2l.uk
Get in touch
elizabeth@g2l.uk

We employ a range of tools and methods across the full scope of our capability, including:

FULL STACK – FRONT END
HTML5 & CSS

FULL STACK – BACK END
As you might imagine, the list is somewhat endless and over time, continues to grow. But as you might expect, the obvious candidates are all present, these being:
- JavaScript
- AJAX
- Python
- MEAN
- PHP
- ASP

OTHER LANGUAGES
- JAVA
- C++
- C
- Visual Basic
- Ruby
- Pascal
  - Delphi
  - Modular2
  - Lazarus
- Assembler
- CORVID

DATA
- Ontology (connection of disparate sources and formats to single source)
- Analysis
- Normalization, architecture and design

We are able to work across all data formats, including those you would most expect, such as:
- Oracle
- MySQL Microsoft SQL Server
- PostgreSQL
- MongoDB
- DB2
- ElasticSearch
- SQLite
- Microsoft Access

INSTALLER AND LICENSE/SUBSCRIPTION MANAGER

The Plugin installer is a C development capable of operating in both an online or air-gapped environment on Windows, Apple Mac or Linux platforms.

Benefits
- Increased revenue by increasing customer base through making the software more widely available

Why was it developed?

Filmworkz launched in 2022 bringing the power of the Emmy award-winning image processing technology of their family company, Digital Vision World, to an entirely new audience in the form of OFX plugins, together with their Archive Restoration Company, R3store Studios, and our Footage Fanatics at R3el.com

Presenting 35 of the best Emmy award-winning tools available (with more to come), you'll find a plugin perfectly matched to any grading, correction, restoration or conversion challenge.

Who uses it?

Freelancers, international broadcasters, indie film makers and Hollywood studio

Any plugins?

No.

What type of system is it?

There are two component parts: A cloud based license/subscription management with security by design and delivered via a browser on any PC, laptop or device.

Stand alone installer application capable of working in both online and air-gapped environments across any platform or device.

Filmworkz
Create Incredible

Device/SaaS Solutions

A big data solution system, used to measure vibration on railway tracks to detect and report damage at specific locations nationally. The analysis is carried out on the fly with exceedance reported via HTTP (or direct connection via TCP). The box also included GEO positioning.

Benefits

- Improves safety for passengers and staff
- Saves money by identifying potential problems before they occur

What is it?

The safety of train passengers and staff is at the heart of this development. This device was developed to transmit real time signals about the health of the train track back to a monitoring device which in turn alerts train operators to when the track needs maintenance or replacement. It also saves train operators money as it cuts down the amount of essential maintenance required on their rolling stock. Bad stretches of track can often cause damage to a wheel base which then must be fixed or replaced.

Who uses it?

The product provides Network Rail, and Train Operating Company (T.O.C.) an approved solution.

Any plugins?

Yes, an engineer could perform additional tasks, tweak configuration and carry out additional reporting via an application on their mobile or laptop – hardwired to the device or connected via wifi.

What type of system is it?

The system was developed in two parts. Part 1. The server houses the data solution, reporting and member based interface platform.

Part 2 is a bespoke device created using C on a Linux OS that measures vibration. We created our own binary based data format to handle file size across communications. Analysis is carried out on the fly with exceedance reported via HTTP (or direct connection via TCP). The box also included GEO positioning.

NetworkRail   Virgin trains   EAST MIDLANDS TRAINS

T3 Diagnostic

The t3® diagnostic allows team leaders to understand team dynamics and plan for improvement and growth.

Benefits

- Strong sales funnel for Perpetual: to bolt on their HR services and professional coaching
- Reduces man hours from days to seconds
- Integrates with website and existing CRM software
- Powerful and professional software
- Very marketable

Who uses it?

Perfect for analyzing teams across companies of any size and from within almost any industry.

Any plugins?

No.

Why was it developed?

From finding the right talent and ensuring they land appropriately to delivering provocative strategy and culture interventions, Perpetual's services set the stage for goal achievement and a legacy level of performance. Individual users may complete a diagnostic and get an individual PDF report with additional explanation and commentary emailed to you. Companies may perform anonymous diagnostics across entire teams so to gain a true picture across a whole company.

What type of system is it?

A full stack development in PHP, MySQL, HTML 5, XML and Javascript with integration across Microsoft PowerPoint and Excel, Adobe PDF reporting and Sales Force. Cloud based with security by design, delivered via a browser to any PC, laptop or device.A best-in-class SaaS solution providing brochure style profiles, indexing and matching as well as a number of coaching programme management tools, reporting, analysis and measurement. PHP, mySQL, JS and HTML5.

Perpetual:
Empowering talent. Fueling brands.

COCO

A member-based platform for coaches with matching, management and measurement tools.

Benefits

- Management tool for coaches and coachees
- Information can be shared easily between users
- White label version for coaching consultancies
- Programme management
- GDPR compliant way of handling data
- Group bookings

Why was it developed?

CoCo is a management platform for coaching programmes from just about any modality. The system provides multiple secure account types and may be deployed to companies or coaching consultancies in a white labelled format as well as to coaches and coachees as individuals.

It allows the measuring of goals as well as reporting on financials, time sheets and timeline tracking.

Who uses it?

A member-based platform for coaches providing matching, management and measurement tools.

Any plugins?

No.

What type of system is it?

A best-in-class SaaS solution providing brochure style profiles, indexing and matching as well as a number of coaching programme management tools, reporting, analysis and measurement. PHP, mySQL, JS and HTML5.

CoCo is currently one of only two true enterprise-class coaching solutions. Integrated native loyalty points system, gamification and badge solution.

L&D Social Platform

What is it?

A community-based platform that provides various tools to aid social and business development across the L&D industry.

Who uses it?

Coaches and coaching companies, training companies, HR groups as well as
any individuals seeking coaching, training or mentoring. Also used by researchers.

Any plugins?

Yes, the platform uses the new G2L Modality Fabric to provide nodal, single sign in to a larger L&D community as well as the CoCo tools.

Why was it developed?

Employing the very latest in YouTopian philosophy together with the TSoP algorithm for measuring engagement, the mBraining L&D hub provides a crucial gathering point for coaching professionals. With profile management, those looking for a coach from the mBraining modality can find their perfect match while taking advantage of the platforms learning management solution to take online courses.

What type of system is it?

The system incorporates HTML5, JS and CORVID to present a members only environment boasting instant messaging, professional business profiles, independent, Facebook style social media platform, Blog and market place – as well as a training delivery tool, badge system and gamification.

wise

Wise presents a survey lead psychometric report that allows an individual to work out what neurological centres most influence their decision-making process

Benefits

- Automates a complex questionnaire
- Delivers a report to the individual and/or coach
- Promotes coaching services
- Helps to build a community

Who uses it?

wise certified coaches and practitioners, HR professionals, NLP coaches, life coaches

Any plugins?

No.

Why was it developed?

While conventional teaching tells us of our head brain, science is now able to show that neurologically speaking, we are somewhat more complex. The Wise system embraces the concept that the decision-making process may be influenced from other neurological centers such as the heart, stomach or ANS. Wise provides advice, help and support based on an individual's specific results.

What type of system is it?

A full stack development in PHP, MySQL, HTML 5, XML and Javascript with integration across Microsoft PowerPoint and Excel and Adobe PDF reporting. The main report may be delivered at two levels, the more detailed being 58 pages in length.

wise

Drug Resistance Analysis Tool

A best-in-class SaaS solution providing brochure style profiles for indexing, matching, reporting, analysis and measurement. An analytical tool based on laboratory and phase IV drug study data to determine the rates of resistance of various geographical strains of bacteria against available antibiotics.

Benefits

- Tracks and reports drug resistance to antibiotics globally
- Helps with life saving treatment choices

Why was it developed?

This database of antibiotic resistance helps medical professionals treat a specific strain of bacteria as contracted by a patient, in the context of where that patient first became ill. This is important because often bacteria will mutate and form resistance according to the most common treatment in a specific location. For example, the most effective drug against Streptococcus pneumoniae in the UK may actually prove to be completely ineffective in Hong Kong.

Who uses it?

Hospitals, research scientists and laboratories.

Any plugins?

Yes, this platform has many plugins, including an encyclopedia style archive tool, a presentation system allowing analysis to be presented directly from PowerPoint and a mobile analysis solution delivered from handheld devices.

What type of system is it?

The system incorporates analytical software and solutions driving a SaaS approach, presented through HTML5, PHP and JS.

Wheelchair Management Tool

The system allows the tracking of wheelchairs allocated to patients across the trust's territory as well as track maintenance and new bespoke builds

Benefits

- Updates an old dysfunctional system
- Manage maintenance and cleaning
- Saves money on equipment losses
- Collects requirements for bespoke builds

Why was it developed?

Historically, tracking of wheelchair inventory had been poor, while maintenance was not properly tracked. Additionally the details recorded for the manufacture of new wheelchairs, bespoke to specific patients was extremely adhoc and formalized into any single method of capture. Often the time required for the build of new chairs was greatly lengthened by the initial diagnosis and prescription process, A system was needed that tracked current inventory, maintenance and deep cleaning while giving a formal process and format to the acquisition of "new builds".

Who uses it?

Administrators, doctors and managers in rehabilitation trusts anywhere it is needed

Any plugins?

Yes, an RFID reader app that could be installed onto any mobile telephone.

What type of system is it?

A full stack development in PHP, MySQL 5, XML and Javascript with integration of a an RFID solution that included heat/water resistant tags being added to chairs (for tracking of maintenance and deep cleaning)

NHS

Oncology Tool

The NHS data oncology application automatically combines contents of numerous and varied legacy data solutions to be merged as a clean database.

Benefits

- Combines data from many sources
- Automatically cleans data and removes duplicates and transcription errors
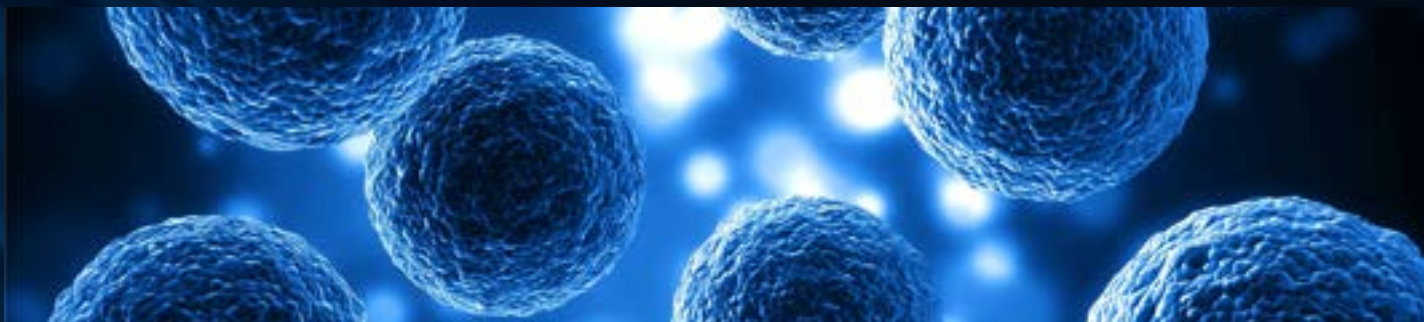- Assists in cancer treatment

Who uses it?

Administrators and data managers within the NHS wishing to mine data from legacy systems or create clean data solutions from existing information across numerous sources.

Why was it developed?

The implementation and subsequent phasing out of multiple data solutions had created a legacy of information being stored across numerous different containers in multiple different formats. The data included repetition, transcription errors and in many cases the information was stored in formats that was no longer supported. The Oncology solution brought all the data into a single format, removed all instances of repetition and transcription errors and allowed the data to be exported in any form.

What type of system is it?

A full stack development in PHP, MySQL 5, XML and Javascript with integration to multiple data formats. The system includes a User Interface with full functionality around reporting and data cleansing.

NHS

Drug/Alcohol Test Unit

What is it?

A device capable of measuring a test swab, storing it digitally, transmitting it to a server side solution as a chain of evidence, with a random test generator and full account management (client by client). The device itself was created using Raspberry Pi and C with SQLite with comms over HTTP.

Why was it developed?

The tester allows samples to be retained in the chain of evidence, protected as a digital sample. The device is easily deployed with a wide range of uses, from occupational health and sports to law enforcement

Who uses it?

The police and occupational health companies – as well as large companies with heavy machinery and logistics companies.

What type of system is it?

The system was developed in two parts. Part 1, the server houses the data solution, reporting and member based interface platform. This included a chain of evidence, a random test generator and full account management (client by client).

Part 2 - The device itself was created using Raspberry Pi and C with SQLite with comms over HTTP and allows a swab to be read with he results recorded digitally back to the server side data system.

Any plugins?

No.

SureScreen Diagnostics

High Intensity Training Bike

What is it?

A gym or home based exercise bike with inbuilt AI. The exercise bike is measuring live heart rate and revolutions, while controlling the resistance through the gear system. A visual dash display mounted on the handlebars and a safety cutoff (again through monitoring). Communication is done over wifi.

Who uses it?

Gyms, private individuals and sports clubs.

Any plugins?

No.

Why was it developed?

HIT training is the cutting edge of exercise science: using exercise in the most efficient way to get the desired physical and mental results. This exercise bike was commissioned to automatically tune the resistance of the machine to the individual's exercise intensity. This blend of exercise science and technology made it one of the first AI exercise tools developed.

What type of system is it?

The system was developed in two parts. The server houses the data solution, reporting and member based interface platform – including account based performance over time, league tables, workouts, badges and challenges (including gamification).

Part 2, the exercise bike included a mounted tablet housing an AI that measured heart rate and revolutions while controlling the resistance through the gear system. Included a visual dash display mounted on the handlebars and a safety cutoff (again through monitoring). Communication is done over wifi.