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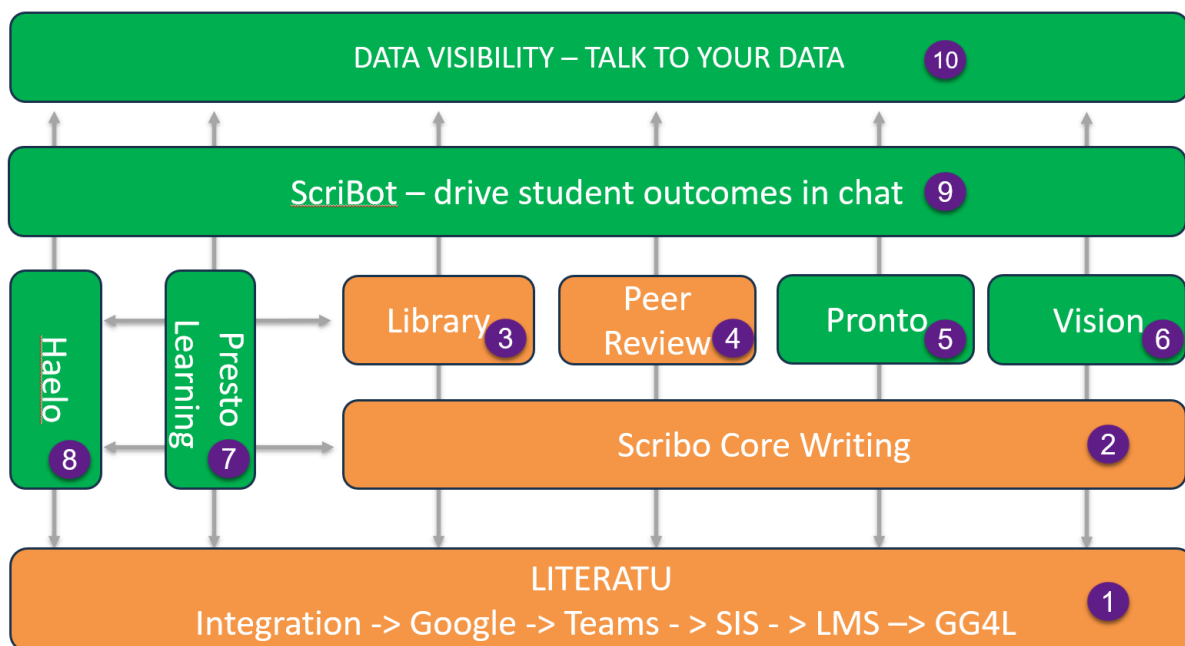
The Literatu Scribo writing improvement platform combines purposeful AI powered components, focused on helping teachers and students improve English written literacy.

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Executive Summary

Literatu Scribo is a complete writing improvement platform. Inside the platform, there are ten components, each designed to help teachers streamline workflows as and when more support is needed.

Core Literatu Scribo components are in Orange and additional components are shown in Green.



The Literatu platform encompasses a comprehensive writing improvement ecosystem designed to enhance the English writing skills of students, and facilitate teachers in managing and delivering education more effectively. Here's a summary of the ten core platform components:

1. **Literatu Core Platform:** Serves as the foundation of the platform, integrating all applications and workflows, ensuring data security and privacy. It streamlines the onboarding process, supports single-sign-on access, and integrates seamlessly with various systems, including Google Teams, SIS (Student Information Systems), and LMS (Learning Management Systems). The Scribo Core platform includes components 2, 3 and 4.

2. **Scribo Writing:** The flagship component focuses on enhancing English writing skills. Scribo connects teachers and students in a transparent writing space, offering personalised feedback, lesson planning aids for teachers, automated grading options, and a variety of other features to save time and enhance learning outcomes.
3. **Library:** Offers age-appropriate writing activities aligned with the English First curriculum and the CEFR (Common European Framework of Reference for Languages) standards. It includes a vast range of resources for various English learning stages and tests like IELTS, TOEIC and TOEFL, allowing customisation and sharing of content among schools or teachers.
4. **Peer Review:** Facilitates a peer review process designed to enhance student engagement and learning through structured and freedom-filled activities. It includes options for anonymity, rubric grading and bad language filters, all with teacher oversight.
5. **Pronto :** Make Scribo feedback visible to all Google Doc users, in Google docs. Pronto is a Google docs extension that installs in seconds for all Google Doc users. Pronto overlays Google Docs, creating detailed writing feedback for students using Google comments. Pronto also aligns and tracks student work against education standards and does rubric grading.
6. **Scribo Vision:** Support the integration of handwritten text into digital feedback and grading systems. It utilises mobile devices to capture images of handwritten texts, converting them to digital format for convenient feedback and grading, preserving the original text for improvement tracking.
7. **Presto Learning:** A platform for creating engaging micro-courses and assessments with automated scoring. It significantly reduces lesson preparation time by utilising AI and templates to streamline content creation, supporting a variety of assessment modalities.
8. **Haelo:** Enables the use of verified, safe and teacher preferred information sources for student learning, giving safe and focused enquiry into subjects via a configurable Chat Bot .

9. **ScriBot:** A conversational bot powered by GPT technology, enabling users to interact with the platform in a more natural and intuitive manner. It aids in creating lesson plans, rewriting passages and generating content, simplifying the use of GPT for educational purposes.
10. **Data Visibility – Data Stories – Data Chat:** Integrates data collection and analysis across all components of the platform, offering dashboards, chat interfaces and data stories to help teachers access and understand student performance data easily.

All components intentionally improve English writing skills, streamline educational workflows, and enhance the teaching and learning experience using advanced AI and data-driven insights. Read on for more information.

1. Literatu Core Platform

Literatu Core integrates all applications and workflow features in the platform and ensures data security and privacy.

Key Integration points across Google, Teams, your SIS or LMS are integrated to ensure school rosters, class structures and user accounts are aligned and updated.

Literatu also integrates with several SIS systems and in the US, 4GGL. We have focused on making the onboarding process seamless and secure to load school rosters and users into Literatu and Scribo.

Once integration is complete, all users have single-sign-on access, ensuring no new login accounts or passwords are needed.

2. Scribo Writing

Scribo is our flagship writing improvement platform, focused on helping all teachers and learners of English writing to write better English. Scribo is the core component used by teachers, students and schools around the world to save time, increase student engagement and build English writing skills.

Scribo Writing specialises in connecting teachers and students in a transparent writing space where Scribo delivers feedback and guidance to students under the full control and visibility of teachers.

The integration of safe AI unlocks the opportunity for teachers and students to interact with our personalised Additional Instructor in a 24×7 capacity.

Scribo feedback addresses much more than the base Grammar, Punctuation and Spelling (GPS) delivered in many products. Scribo finds the student level in writing, and guides students in self-directed improvement. Scribo helps teachers save hours of grading and feedback time with more visibility into the areas where each student needs more targeted and explicit instruction.

Scribo opens workflow support into the classroom with minimal effort and training. Options help teachers surface additional functionality where it makes sense to them and the support offered to students.

Main features include:

- Age appropriate / levelled feedback delivered for every student on demand
- Teacher visibility across student improvement
- Personalised writing scaffolds to accompany and direct student writing
- AI-assisted lesson planning for teachers
- Teachers create their own writing activities, scaffolds and writing plans
- Teachers control overall feedback and the way it is delivered
- Automated essay grading through rubrics and automatic grading support options
- Peer review available for students
- Feedback translation into multiple languages
- Feedback tracking across all students
- Full access to all student writing history across the school
- Complete student / parent reporting
- Visible evidence of improvement with data to support teaching
- Formative and summative modes of assessment
- Reduction of 20 hours of teacher time per week with an increase of 4 times the amount of writing done by students

A comprehensive rubric-marking capability is built into Scribo. Schools and teachers load rubrics of any size, purpose and dimension into a library that can be shared across the school. Currently Scribo is trained in over 40 international rubric definitions and scoring. As you add your own rubrics, Scribo adjusts to work with you.

Scribo AI evaluates student writing against the chosen rubric, developing a suggested score and age appropriate feedback for each student. The feedback addresses each element of the rubric, offering specific advice on where improvements can be made.

Rubrics can be scored by students as well in the Peer Review process making them highly visible to everyone in the writing process.

Scribo supports a teaching method that focuses on helping students through their learning, not just looking at their grades at any one moment. Our core belief is that grading is more than just numbers; it's about understanding each student and helping them grow. This way of thinking about grading helps teachers really get to know their students' needs and guide them better.

Just as learning is more about the experience than the final goal, grading should help teachers understand their students better, not just be the final step to completion. Grading is an important way for teachers to really connect with and help their students

By delivering the right mix of AI and keeping teachers involved, educators can make grading fairer and more helpful. Scribo AI is a great assistive tool for grading, working alongside the teacher, who is still the most important part of teaching.

This teamwork gives teachers more ways to understand their students. In this team, AI helps teachers get a clearer picture of what each student needs, making teaching more time effective.

Integration - Scribo across the platform

- **Presto** micro-courses flow into Scribo guidance and scaffolding for students
- **Scribo** remediation exercises are delivered in Presto
- **ScriBot** opens up a full integration of GPT to help teachers build higher level feedback and guidance
- **Vision** brings student handwritten texts into Scribo to extend the writing process
- **Data Dashboards** open data visibility and growth metrics across every student, class, teacher and school. Teachers can ask questions about the data in natural language and get instant results, for example – “How many students have grammar scores below 50%?”

- **Haelo** content sources can be used by students as research materials for writing. Scribo tracks all content used and not changed by students. This option gives students great access to known materials that can be used to extend knowledge and reduce plagiarism

3. Library

Scribo writing libraries contain age-appropriate writing activities mapped against an English First curriculum. This makes all activities suitable for all ages and levels of writing. The six levels align to the international CEFR standard, suitable for use by school age students from stage 1 through to stage 6.

There are multiple libraries of writing activities, each one containing writing scaffolds and plans for teachers to quickly assign and/or personalise for each student.

Libraries cater for IELTS, TOEIC and TOEFL, as well as many published resources suitable for students across stages 1 – 6 of English learning.

All libraries are selected by schools. Scribo comes with a substantial library that is included as a base set of resources. Schools, districts or teachers can build their own library of resources and share the content. Libraries are a super effective way to build out reusable resources.

Integration of the Library across the platform

- There are Presto libraries that can be copied, changed or simply assigned
- There are libraries of Scribo writing activities, ready to deploy

4. Peer Review

Some schools and teachers use peer review to get students thinking outside their ZPD by looking into someone else's. Scribo delivers a very functional peer review process, designed by teachers to get students involved in learning from other students.

Peer review has a range of options that drive the process the way teachers want students to work.

- Anonymous or named reviews
- Randomised or planned pairing of students
- Set review guidance questions

- Allows students to grade via rubrics
- Bad language filters
- Full oversight by teachers to see across all comments

Students enjoy both the structured experience and the freedom to contribute to peer reviews. Seeing what and how other students are writing is a great learning experience for each student. Scribo hands all control over peer review comments to the school.

5. Pronto - the Scribo~Google Docs extension

Google Docs is where a lot of writing is done, in many classrooms. Pronto is a clever way for teachers who want to stay in Google, using the Google comments system and integration driven by Google classroom.

Pronto is a Google Chrome Extension.

Pronto is Scribo running inside Google docs with all of the powers of feedback, standards mapping and rubric grading. Teachers have awesome abilities to target feedback and deliver all interactions using Google Docs. There is no 'account' to set up, no classes to manage.

Pronto handles the entire student feedback loop with great analytics.

6. Scribo Vision

Many curriculums and schools still teach English writing using paper and pen. Scribo fully supports handwritten text recognition, making student handwriting visible in a digital format and offering the best of both modalities of writing.

Scribo Vision reads images of student handwritten text very reliably. Teachers can now use their phone to upload images of student text into Scribo for grading and feedback.

Grading student paper-based text responses consumes teacher time. Teachers always make the point that there is never enough time to correct and explain everything.

The cognitive workload for teachers working across multiple classes and levels of student skill is massive.

Scribo Vision cracks the age-old problem of reliable recognition of student handwriting, opening a new world of new teaching and learning moments without breaking the pedagogy and practice of handwriting texts.

Scribo Vision is a phone / tablet app that uses the camera of a phone as the collection point for student handwritten text. Vision quickly offers teachers and students a simple one-click process to take a picture of handwritten text, even multiple pages, and upload it to Scribo for feedback and grading.

Scribo converts handwriting to digital text with all errors preserved. From here the time saving magic begins.

- Using the teacher's preferred rubric linked to the writing task, Scribo grades the text, sending feedback and a grade to the student and teacher instantly.
- Students can then log into Scribo to further improve their text, working with live feedback on their text. This is not possible in a handwritten mode without rewrites, something students and teachers are often too exhausted to do.
- No more red pen, small and hard to read feedback or correction in margins between words. Importantly no more *lost* feedback. The amount of feedback teachers manually give and then lose is an enormous and significant data loss.
- Even if the school only has computer access available for teachers, the Vision workflow still works for everyone.
 - Students use their phone to see the writing activity and scaffold that will support their writing.
 - Students then handwrite their text on paper as they do now.
 - Students use Vision to load their work into Scribo and back to the teacher. In doing so, students receive initial rubric feedback and an estimated score. This definitely helps students to rework their text, something they won't do without immediate feedback.
 - Teachers watch over the entire process without extra work.

Scribo Vision is a simple application that reduces time for teachers and increases engagement for students. Students can, of course, handwrite and then load their work into Scribo whenever they like.

Integration of Vision across the platform

- Vision integrates with Scribo writing, loading the handwritten text.
- Scribo sends Vision back a suggested grade and feedback based on the rubric.
- Teachers can use Vision with very little interaction with Scribo.
- Parents can assist students improving their work as many times as they like before handing work in.

Vision preserves the starting text shape and then tracks improvements from where the writing started in handwritten form. For too long, handwritten texts have been a destination for teachers and students; now they are a journey in improving writing with a complete audit trail.

7. Presto Learning

Presto is made to build fast and engaging micro courses. Originally built to quickly help teachers remediate gaps in student learning, Presto is now a very comprehensive course and assessment creation platform.

Offering over 15 modalities for assessment questions and interactions with several types of text and video options, Presto handles auto-scoring assessment and courseware for reading, listening and speaking.

McKinsey research finds that 30% of teacher time is spent in lesson preparation. Building material in PPT and other presentation systems simply consumes time and often misses the benchmark students seemingly now demand in order for them to engage.

Presto reduces lesson creation and presentation time by a factor of 10 times by using AI to build content automatically and/or by using templates that Presto has built-in to transform existing content from multiple sources. There are over 20 modalities and templates that can be assembled into a micro-course in minutes.

The presentation of Presto in its signature 'deck of cards' interface is engaging and built for mobile and tablet first deployment strategies.

Speaking assessments can be run in both scripted and unscripted assessment formats, rating each student against an international CEFR framework in seconds, with comprehensive feedback and guidance.

Presto also includes a grammar remediation library with over 640 remediation assessments designed to coach students in elements of grammar that Scribo identifies as problematic and needing coaching.

Presto micro-courses can be built from instant LLM integration or quickly hand crafted from existing digital texts and teacher preferred assets. Assigning Presto activities to Google Classroom, Teams and other LMS systems is a single click.

Presto Integrates with other platform components

- Presto includes a grammar remediation library with over 640 remediation assessments designed to coach students in elements of grammar that Scribo identifies as problematic and needing coaching.
- Writing scaffolds and guidance courses can be created in Presto and linked to Scribo. Students access a micro-course in Scribo as they write. The pedagogy variations available with a mix of assessment modalities is really very exciting.
- Presto integrates with Haelo to build interactive lessons and formative quizzes using controlled Haelo content sources.

8. Haelo

Imagine being able to load verified information from your own, or other known and trusted information sources, as a base for student learning. Haelo allows teachers and librarians to create a collection of media assets that are enquired on and accessed using our Large Language Model (LLM).

Haelo is a configurable enquiry Chat Bot that opens a safe student enquiry and conversation into any content that is loaded.

Let's talk through a scenario –

A History teacher, Dr Jones, wants to introduce a new topic from the curriculum to all year 9 history classes. The topic is Genghis Khan, the great Mongol warrior. The context is to start students researching who he was, what he achieved and how he managed to take over most of the Eastern world.

There are several ways forward for Dr Jones. Here we discuss two.

1. Prepare handouts, lesson plans and materials for research, often by way of photocopies and bundles of text. Prepare an overview lesson and induct the students with a follow up project. Essentially this is how Dr Jones does his lesson planning and delivery now.

Or Dr Jones could ...

2. Load all of the trusted resources on Genghis Khan into Haelo. Wiki sites, PDF's, notes, videos, academic papers – any level of content that ranges from the most basic sources of information through to academic based papers on the legend of Genghis.

Choosing approach 2, the momentum builds and the same teaching is done in a more streamlined, student enquiry based learning way.

1. The resources are loaded into Haelo as web pages, PDF's, video links, etc. This converts all these resources into a digital format for all teachers and students in the school. Haelo prepares the files for enquiry by GPT in a walled garden approach. Only this content can be used for enquiry.
2. Students are given a GPT Chat interface to start their own discovery, using the approved content set up by Dr Jones. Questions formed by students like "Who is Genghis Khan?", "What did he achieve?" are asked in a fluent bot style interaction. The student questions are not limited, however they must remain on topic as Haelo will not answer off topic, nor from any information source that is not linked and approved.
3. Students are safe in any and all of their enquiries.
4. Dr Jones seeds research ideas for enquiry, students interact, momentum builds. Teachers are teachers again and students are using their own LLM powered questions and resources to discover who Genghis Khan is.

5. Along the way, Dr Jones monitors the levels of Bloom questioning students are asking. The mission of every class is to get students thinking at higher levels of enquiry. Dr Jones has access to this information in one click. Who is asking what types of questions?

While the content is safe, lifting the level of questioning is the real job at hand.

6. From this new Haelo content source, Dr Jones can create a Presto micro course or assessment on Genghis Khan, directly from the content. This can be deployed across the class in seconds.
7. Dr Jones can link Haelo to an essay topic on Genghis Khan. Students have full research access to the Haelo information source. Scribo manages the tracking of 'copy and paste', informing students that direct copy strategies are known and 'your own work' needs to come forward.

Haelo Integrates with other platform components

- Haelo content sources can be used as research materials in Scribo. Students can ask questions, get answers and use this as a base for their writing. Scribo tracks all Haelo interactions.
- Haelo content sources can be used by Presto to create micro-courses and assessments.
- ScriBot can ask questions in Chat mode on Haelo content sources.

9. ScriBot - the future of learning interactions

Conversation BOTS have been around for over 8 years in various shapes and sizes. Until November 2022, they always had an overhead of structuring the logic and responses people would experience. It's like pressing 1 for more information and 2 to talk to a human.

GPT (Generative PreTrained Transformer) models changed all of that. GPT is able to seamlessly generate an appropriate response from any question asked.

ChatGPT connected this generative ability to the entire human internet, letting anyone ask a question and get a pretty good answer on nearly any topic one could think of.

Where cut and paste plagiarism used to worry everyone, the ability to generate original and nearly untraceable text from a prompt or question takes the whole ballgame to another level. Technology is evolving every day and this technology has just started.

Scribo creates engagements in writing, monitors student text and responds with feedback suggestions and corrections. It specialises in joining up the human skills of a teacher with the needs of a student, with a new level of support that saves time and lifts engagement.

We have been using GPT technology for many years, creating personalised experiences in learning and feedback to help every student write better English.

We also decided to take the support we offer to the next level and release of ScriBot. This was a natural extension to the AI development we have been doing for the last 6 years.

ScriBot is a conversational GT powered bot, allowing teachers and students (if allowed) to have a conversation about anything, or something specifically.

Below is a very small collection of what ScriBot can do – the only limit is your imagination.

- Ask ScriBot to create a lesson plan for a new topic
- Ask for an opinion on a piece of text
- Rewrite a passage making it more applicable to a year 4 cohort
- Rewrite anything at all
- Create a series of questions and answers for a quiz, about pretty much anything
- Create a Presto micro course with content supplied, or from content contained in Haelo or GPT sources

The core drivers of GPT systems are still the humans in the room. To use LLM's and GPT-like resources effectively, humans must construct a 'prompt'. The prompt is a scenario needing a response. It is designed to get the LLM focused on generating the kind of response the prompter wants.

Prompting is the intensive part, and one that many teachers simply don't have time to construct and learn. ScriBot opens up the power of GPT and LLM technology by building the prompt in the background.

Teachers and students do not need to learn prompt engineering to get going, they can simply ask a simple question.

ScriBot integrates with other platform components

- ScriBot integrates with Presto, able to build information and content that can be used as a base for Presto micro-courses.
- ScriBot integrates with Scribo, giving teachers extended capabilities to create additional feedback and guidance for students.
- ScriBot has an open access to GPT engines, allowing teachers to research anything at all, from within Literatu. The unlimited generative power of LLMs is available in one click.

10. Data Visibility, Stories and Data Chat

All components in the Literatu platform collect data as interactions happen. Every moment students and teachers are using Scribo, Presto, Vision or Haelo, we collect data.

For every writing check, for example, we catch all revisions and feedback plus over 70 data points on each revision. Scribo knows, for example, where students need support, the type of support, what skills are growing and/or slowing. All of this data fuses into a series of dashboards that show movement in growth and areas where more work and teaching is needed.

Scribo has now integrated data and chat together, allowing any teacher to discover the information they need, simply by asking a question. For example –

“List the students who are scoring less than 60% in grammar, and the activity they are working on”

Scribo will respond.

Data stories need to support teachers. Teachers do not have time to understand complex graphs and presentations of data. We have been working with teachers for many years and know that the best information is information that is available to them in ways that allow them to see the story they are looking for.

Data Chat is the next level of interface into data that is collected over time.