

StudyTrail languages

Adaptive Learning, Shaped by Your Path



Agenda

- Who We Are
- What's Already There
- What's the Situation
- Vision for the Future
- last iPraktikum
- Scenarios
- What could become of it



Who We Are

All about streamlining processes

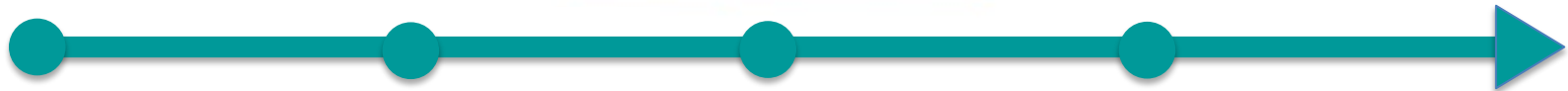


Founded
in 1873

Software
for
Schools
since
1999



2021 launch
of Maiß
Schul-Portal

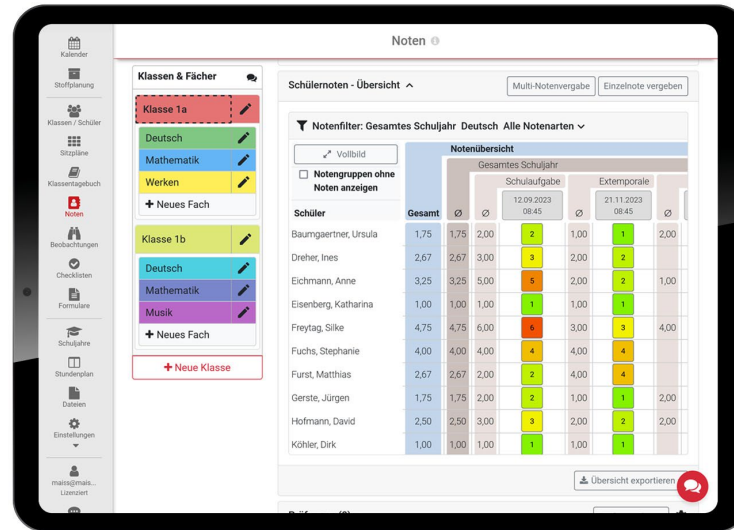


Always
family-run -
in 5.
Generation
since 2018



Who We Are

Digital Innovation



Noten

Klassen & Fächer

- Klasse 1a
 - Deutsch
 - Mathematik
 - Werken
 - + Neues Fach
- Klasse 1b
 - Deutsch
 - Mathematik
 - Musik
 - + Neues Fach
- + Neue Klasse

Schülernoten - Übersicht

Notenfilter: Gesamtes Schuljahr Deutsch Alle Notenarten

Notenübersicht

Schüler	Gesamt	Gesamtes Schuljahr			Extemporale	
		12.09.2023 08:45	21.11.2023 08:45			
Baumgaertner, Ursula	1,75	2,00	2	1,00	1	2,00
Dreher, Ines	2,67	3,00	3	2,00	2	
Eichmann, Anne	3,25	5,00	5	2,00	2	1,00
Eisenberg, Katharina	1,00	1,00	1	1,00	1	
Freitag, Silke	4,75	6,00	6	3,00	3	4,00
Fuchs, Stephanie	4,00	4,00	4	4,00	4	
Furst, Matthias	2,67	2,00	2	4,00	4	
Gerste, Jürgen	1,75	2,00	2	1,00	1	2,00
Hofmann, David	2,50	3,00	3	2,00	2	2,00
Köhler, Dirk	1,00	1,00	1	1,00	1	

Formular 1861 (Bridwahl Wahlunterlagen mit Wahlberechtigung)

Gespeicherte Formulare | Speichern | Drucken | Felder leeren | Schülerauswahl | Schließen

Schüler	Schäfer, Leon	Bezeichnung der Schule
Klasse	4B	
Schuljahr	2022/2023	

Wahlunterlagen für die Wahl des Elternbeirats

Sehr geehrte Eltern,

Sie erhalten heute zusammen mit diesem Brief die Wahlunterlagen für die Elternbeiratswahl in diesem Schuljahr:

1. einen vorgegedruckten Stimmzettel mit den vorgeschlagenen Kandidaten,
2. ein Kuvert zum Einlegen des Stimmzettels (Umschlag dann verschließen).
3. ein Kuvert, in das Sie bitte die Wahlberechtigung (siehe unten) zusammen mit dem inneren Kuvert einlegen und verschließen.

Jeder Stimmberechtigte kann so viele Stimmen abgeben, wie Elternbeiratsmitglieder zu wählen sind. Erziehungsberechtigte sind allein oder gemeinsam stimmberechtigt.

An unserer Schule besteht der Elternbeirat aus _____ Mitgliedern.

Sie dürfen also auf dem Stimmzettel deshalb bis zu _____ Kandidaten ankreuzen.

Stimmzettel, die handschriftliche Ergänzungen enthalten oder auf denen mehr Bewerber angekreuzt sind, als zu wählen sind, sind ungültig. Stimmzettel mit Hinzufügungen jeder Art sind ungültig.


Termin für die spätmündliche Rückgabe an die Schule: _____

Wenn Sie den Wahlumschlag mit der Post an die Schule schicken möchten, verwenden Sie bitte die angegebene Adresse, frankieren den Brief und schicken Sie ihn so rechtzeitig ab, dass er noch vor dem Ausgabetermin an der Schule ankommt.

Adresse der Schule:
 Grundschule München an der Isar,
 Herrstraße 21, 80539 München

Abgabe bitte bei: _____

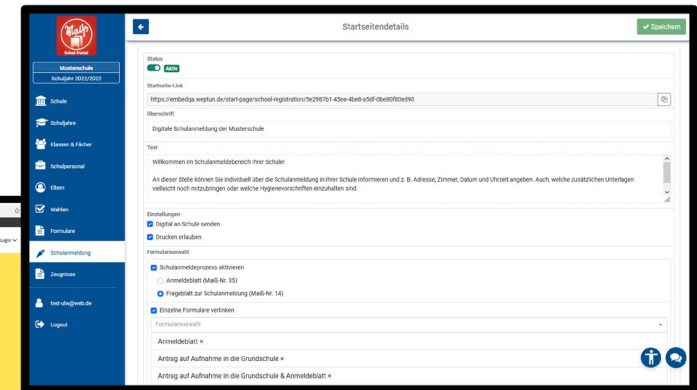
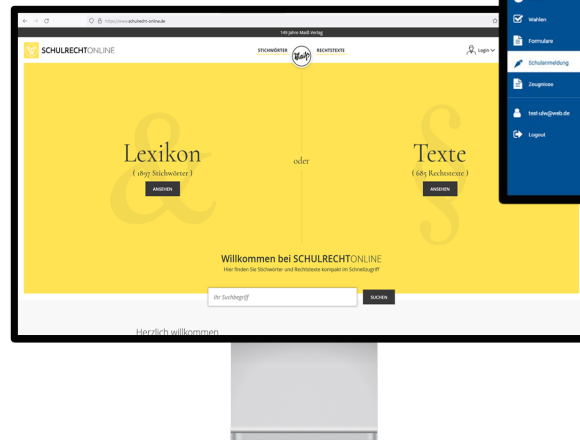
Die Ausübung erfolgt am: _____

Mit freundlichen Grüßen

 Dr. Hubertus Stoppeler, Schulleiter

Bitte hier unterschreiben

Wahlberechtigung für die Erziehungsberechtigten von:

Bezeichnung der Schule	Schüler
Grundschule München an der Isar	Schäfer, Leon



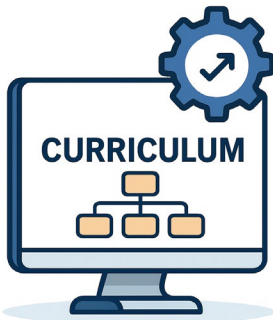
What's Already There



Creating class schedules



Documentation of tests, grades and student observations



Automatic planning of a curriculum based on the schedule



Student absence management

What's the Situation – Students

Different Learners – Same Classroom

Knowledge

Pace

Language



Heterogeneous starting points and progress rates

Language barriers limit participation

Socially disadvantaged students receive less support

What's the Situation – Teachers

High Expectations – Limited Capacity

- Preparation and documentation take hours
- Staff shortage increases workload
- Little time for individual feedback



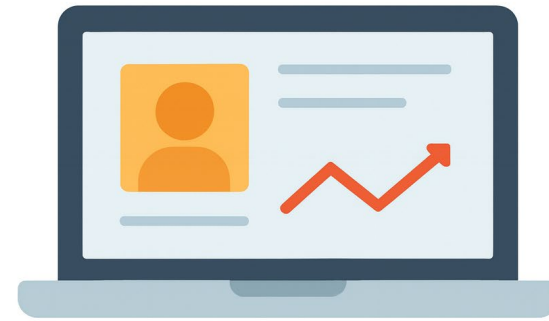
What's the Situation

Static Tools Can't Adapt to Learners' needs



Static tools

No personalization by
knowledge or pace

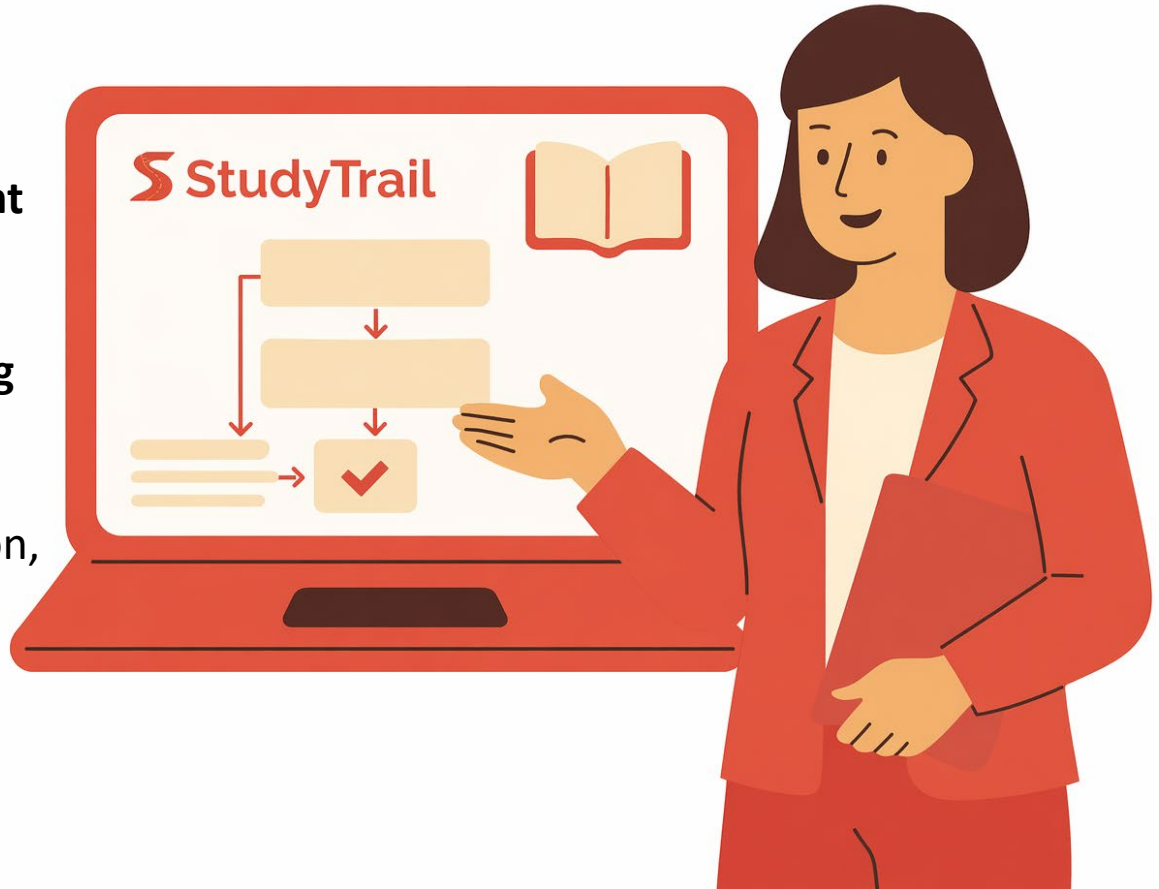


Adaptive systems

Motivation fades without
feedback and progress

Vision for the Future

StudyTrail introduces an **adaptive learning assistant** integrated into the Maiß platform. It models **curriculum-linked learning paths** with explicit **prerequisites**, ensures mastery before progression, and adapts explanations, exercises, and language level to each pupil.



Vision for the Future



Inclusive features support pupils facing social or linguistic barriers through simplified phrasing, multilingual hints, and low-barrier UX.

Gamification (progress bars, streaks, badges, challenges) sustains engagement without grade pressure.

Vision for the Future

StudyTrail provides teachers with actionable insights: misconceptions at class and group levels, recommended interventions, and workload reduction through automation.

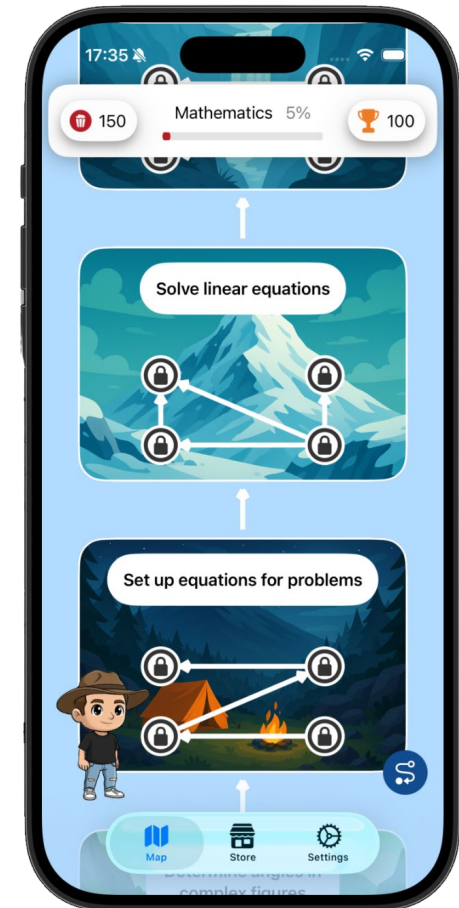
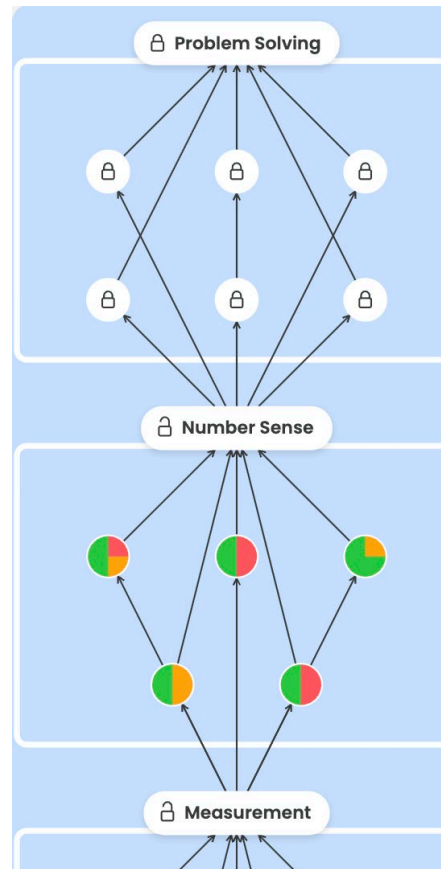


What the last iPraktikum achieved

same Vision,
 focused on math.

- teacher dashboard
- an AI-Powered Task extractor
- iOS-App for Students

No need to connect or use
 existing stack, but can be
 used for inspiration



Scenario 1



Import Vocabulary

- + Add Manually
- ↑ Import from File

.csv .xlsx .txt



Select Topic for This Week

At the Restaurant 24 words

Linked vocabulary set

menu	Speisekarte	noun	
order	bestellen	verb	
bill	Rechnung	noun	
tip	Trinkgeld	noun	
waiter	Kellner	noun	
...			

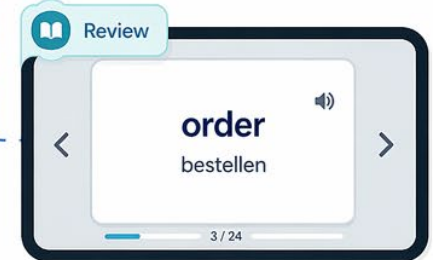
+ Add Word

Assign Topic to Class

This topic is active for the week and will drive all practice in pupils' apps.



Pupils' Apps



One Topic. All Practice.
 Conversations, adventures, and review use the same vocabulary set.



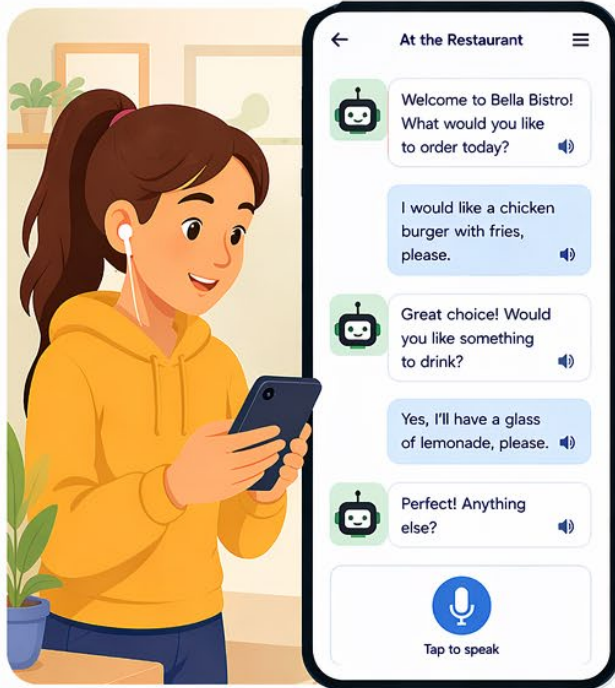
Teacher Control
 Adjust words, translations, or parts of speech anytime.



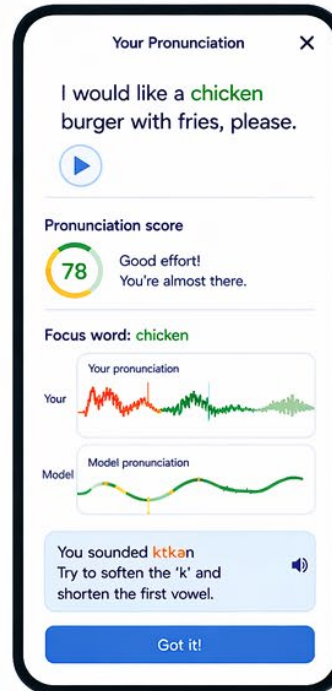
Connected Learning
 Pupils get a consistent, engaging experience across all activities.

Scenario 2

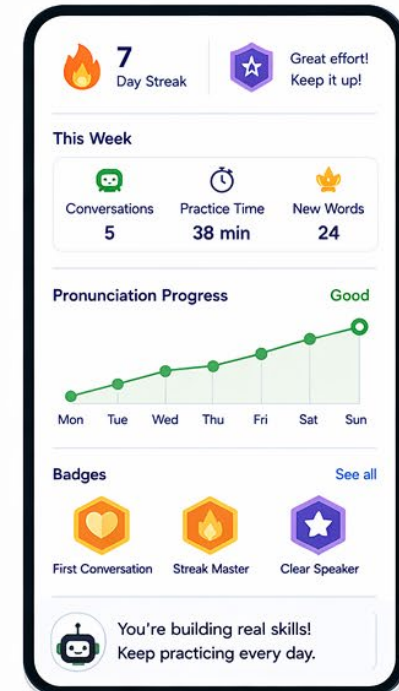
1. AI Conversation



2. Pronunciation Feedback



3. Progress & Streaks



Natural Conversations
 Real-life topics using week's vocabulary.



Speak in Full Sentences
 Pupil responds, tutor continues.



ML Pronunciation Analysis
 Spectrograms evaluate pitch, stress, intonation.



One Hint at a Time
 Supportive feedback that guides improvement.



Effort-Based Progress
 Streaks and achievements reward consistency.

Scenario 3 (stretch goal)

Assigned Vocabulary

-  apple
-  bread
-  cheese
-  water
-  wallet
-  ticket
-  camera
-  suitcase



Apply Words in Context

-  Talk to characters
-  Understand situations
-  Use vocabulary in sentences
-  Complete missions

Adventure Generated by AI



Topic: At the Market
 Objective: Use new words in real-life situations

You

Words used: 4 / 8

Progress: 60%

Example Mission

Help Alex buy what he needs for his trip.

- Buy a ticket
- Buy a water
- Buy a camera

Reward: 50 



Generated by LLM
 Unique adventure based on the week's vocabulary.



Interactive 2D World
 Engage with characters and explore the environment.



Contextual Practice
 Use words naturally in meaningful situations.



Learning Through Play
 Stay motivated and build confidence while having fun.

Proof of Concept <https://studytrail.de>



What could become of it...

My Dream: The Best Language Learning App for Schools

More than Duolingo – built for the classroom, aligned with the curriculum, designed for teachers, and motivating for students.

Better than Duolingo – made for schools

Duolingo	My App
Built for schools	✗ ✓
Aligned with curriculum & textbooks	✗ ✓
Track individual progress	✗ ✓
Add your own assignments	✗ ✓
Data privacy for schools	✗ ✓
Motivation & fun	✓ ✓



Automatically aligned with curriculum & textbooks

Curriculum	Textbook in Use
8th Grade – English	Green Line 3
<input checked="" type="checkbox"/> Unit 3: At the Restaurant <input checked="" type="checkbox"/> Unit 4: On Vacation <input type="checkbox"/> Unit 5: Free Time	<p>The app creates content and exercises that match the curriculum and the textbook.</p>

Observe individual student progress

Students	Vocabulary	Speaking	Grammar	Motivation	Activity	Class Progress (this week)
Maria S.	████████	████████	██████	████████	85%	
Liam K.	████████	██████	██████	██████	62%	
Sofia R.	████████	██████	██████	██████	78%	
Paul B.	████████	██████	██████	██████	54%	
Anna L.	████████	██████	██████	██████	92%	

Teachers are in control – add your own assignments

<p>Create your own assignments</p> <ul style="list-style-type: none"> Fill in the blanks Quiz Open question Listening task 	<p>Upload your own materials</p> <p>PDF Audio Image Text</p>	<p>Assign & differentiate</p> <ul style="list-style-type: none"> Individual students Small groups Whole class 	<p>Safe & GDPR compliant</p> <p>Protecting student data in Europe.</p>	<p>Motivating & engaging</p> <p>Streaks, adventures, and rewards.</p>	<p>Students at the center</p> <p>Personalized learning with joy.</p>	<p>Made for real teaching</p> <p>Supports teachers. Strengthens education.</p>
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One app that understands schools. Empowers teachers. Inspires students. *Together for better education.*

Find us for questions



<https://studytrail.de>

