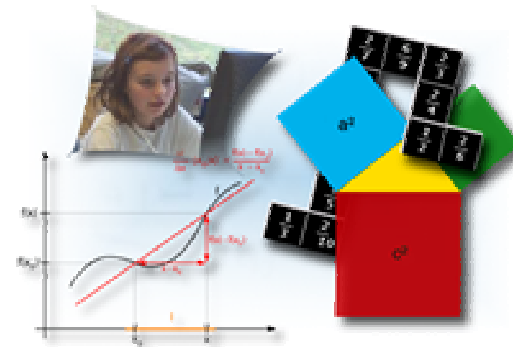

E-learning at the HTW

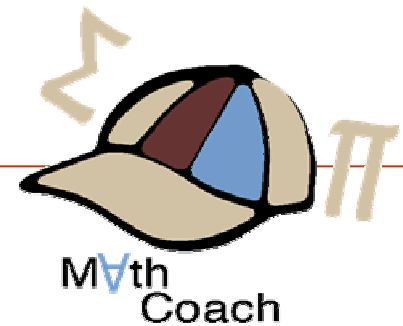
Prof. Dr. Enrico Lieblang
Vice President Academic

HTW des Saarlandes

- University of Applied Sciences
- 3800 Students
- 100 Professors
- departments
 - Business
 - Engineering
 - Social sciences



MathCoach

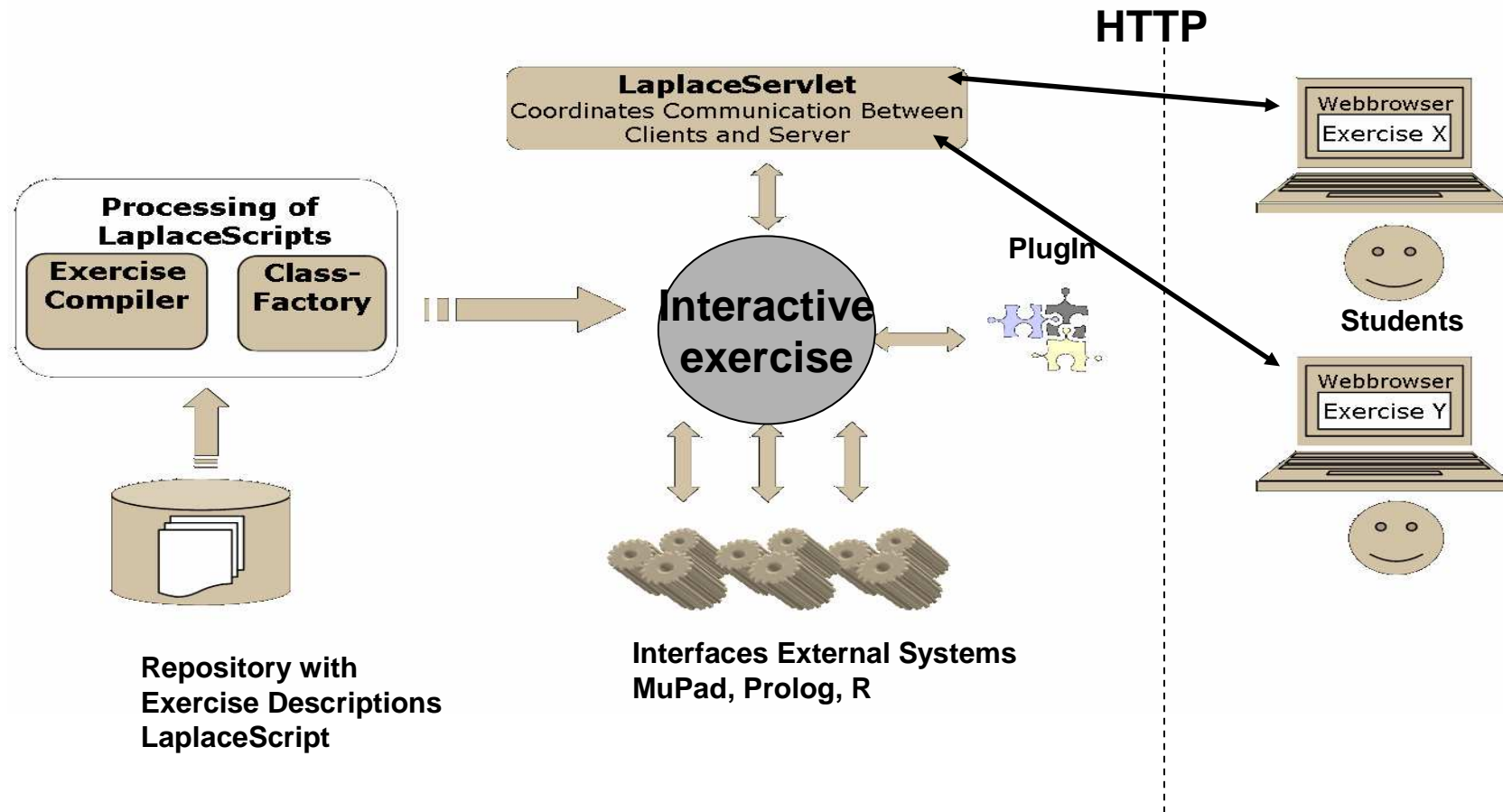


- MathCoach
 - Web-based e-learning tool
 - XML-based authoring language
 - Interactive exercises for mathematics
 - Help generation during run-time
 - Target group: students
 - Prof. Barbara Grabowski

MathCoach - the Difference

- Provides an appropriate authoring language
 - Enables authors to create individual exercises
 - Broad variety of topics
 - Adaptive help function
 - Progressive support and evaluation system

MathCoach System Architecture



LaplaceScript

- Authoring Language
 - Descriptive language rather than programming language
 - Author describes
 - What the program should do
 - How the program reacts of user-inputs
 - Possibility to assign results computed by MuPad or R to a LaplaceScript Variable

Adaptive Help Function

Derivation of a function

Userinput

Evaluation

The screenshot shows a web browser window titled 'Laptop - Mozilla'. The main content area displays the following text:

Eingabe: $\cos(x) - 7 * d(4^x) * e^{(4^x)}$

Bewertung

Richtig! Sie sind aber noch nicht fertig!

Ihre bisherigen richtigen Schritte sind:

$$\begin{aligned} & d(\sin(x) - 7 * e^{(4^x)}) \\ &= \cos(x) - 7 * d(e^{(4^x)}) \\ &= \cos(x) - 7 * d(4 * x) * e^{(4^x)} \end{aligned}$$

Below the evaluation area, there is a toolbar with several buttons: 'Senden', 'Löschen', 'Hilfe', 'Abmelden', 'MuPAD', 'R - Statistik', and 'R - Grafik'. The background of the toolbar area is a light-colored grid with faint mathematical formulas.

Use of Mathcoach

- Ready-Steady-Study courses
 - Brückenkurse
- Tutorials for future Students
- 4 weeks
- Mathematics with MathCoach
- English, Physics, Soft Skills

MathCoach

MathCoach - Windows Internet Explorer
http://mathcoach.htw-saarland.de/moodle/

Sie sind nicht angemeldet. (Login)
Deutsch (de)

Willkommen zum MathCoach-Brückenkurs

Hauptmenü
Nachrichten der Seite

Kursbereiche
Brückenkurs Mathematik
Mathematik 1,2,3
Projekt PI
Kurse suchen...
Alle Kurse...

Forum: Meinungsäußerungen

Verfügbare Kurse

- Einführung in die Arbeit mit MathCoach**
Diesen Abschnitt solltest Du zuerst lesen!
Teacher: Barbara Grabowski
- Online-Tests und Hitlisten zum Brückenkurs Mathematik**
Überprüfe Dein Wissen durch Tests!
Teacher: Barbara Grabowski
- Übungen zum Brückenkurs Mathematik**
Willkommen zum E-Learning-Tool MathCoach.
Teacher: Barbara Grabowski
- Mathematik 1**
Viele Menschen würden gerne etwas dazulernen. Warum soll es im Internet keine Plattform geben, die dieses Mantra bezieht?
Teacher: Barbara Grabowski

Willkommen zum Mathe-Trainer 'MathCoach' des Labors für "Angewandte Mathematik und Statistik" der HTW des Saarlandes.
<http://mathcoach.htw-saarland.de>
Viel Spaß!

Kalender
May 2007

So	Mo	Di	Mi	Do	Fr	Sa
	1	2	3	4	5	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Online-Aktivitäten

Start | e-learning | registration_form_22... | ActiveMath - Courses... | MathCoach - Window... | DE | 11:50

Future

- One platform for other sciences
 - Moodle
 - Clix
- Cooperation with DFHI
 - ActiveMath - MathCoach
 - HTW as Pilot
 - Ready steady study