

Data-Informed Instructional Design

J.-M. Bruel

Diverse Coffee – 2021/02/24

 <https://bit.ly/jmbruel>

 @jmbruel

Slides available:



Outline

- Context
- Ongoing efforts
- Collaboration?
- Help needed

Context

Context

- Part of the **FUN** (Final User Needs) effort
- **New area** for me (and the team)   e-education@IRIT
- 2+1 Ph.Ds (Innopolis University / SiT / IRIT)



SiT Alemira



TALENT

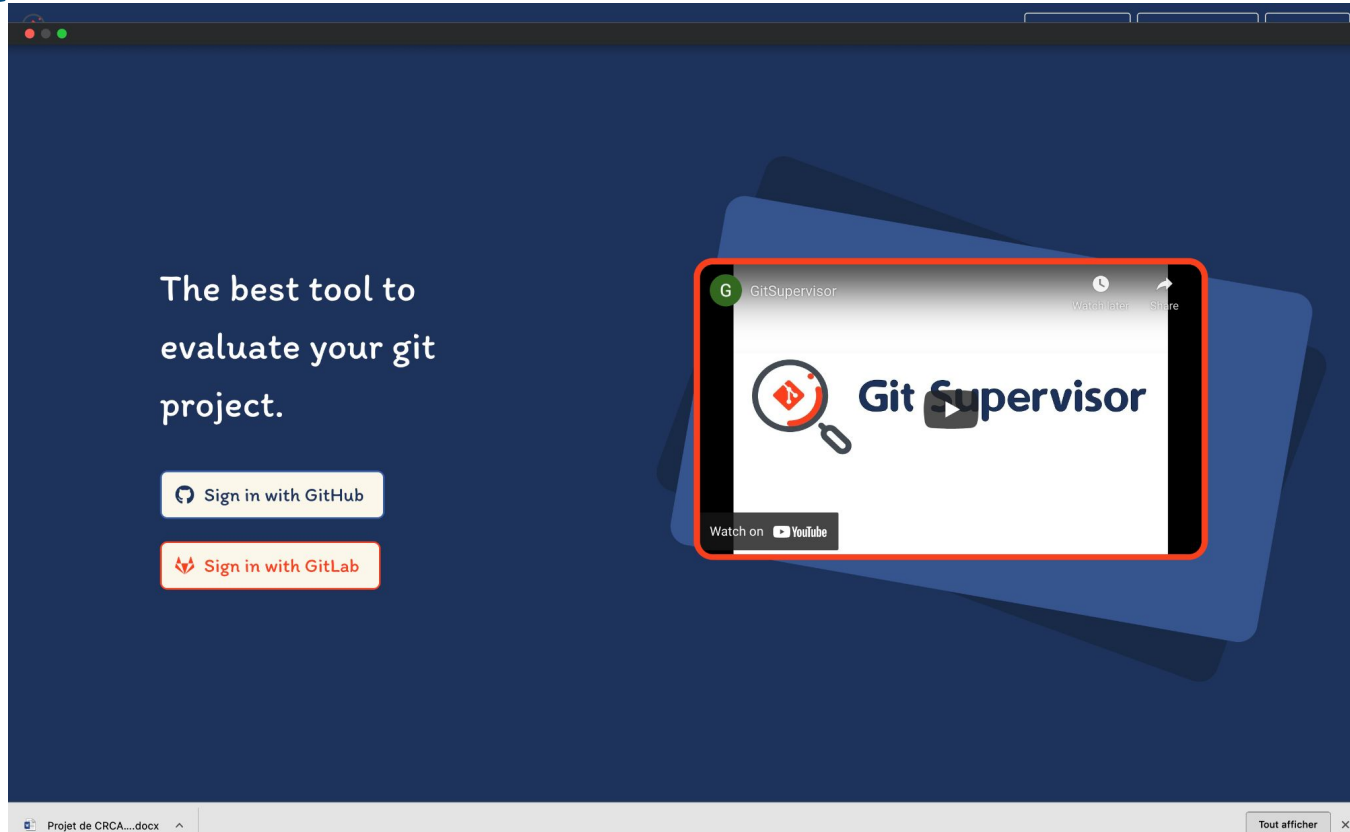
Teaching And Learning Enhanced by Technologies

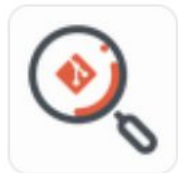


Ongoing efforts

<https://git-supervisor.herokuapp.com/>

Git-Supervisor





git-supervisor

Project ID: 10283708

 **272** Commits  **8** Branches  **7** Tags  **316 MB** Files  **357.9 MB** Storage  **6** Releases

Web application to inspect Gitlab repositories

Git Supervisor API ^{1.0.0}

[Base URL: git-supervisor-api.herokuapp.com]

[/apispec_1.json](#)

API to communicate with Git-supervisor back end

[the developer - Website](#)

[Send email to the developer](#)

Schemes

HTTPS

authentication

GET

/github_callback Returns the jwt token authenticating the user

GET

/github_login Returns the Github login adress

GET

/gitlab_callback Returns the jwt token authenticating the user

GET

/gitlab_login Returns the Gitlab login adress

workspace

GET

/workspaces Gets all user workspaces

POST

/workspaces Adds a new workspace to logged in user

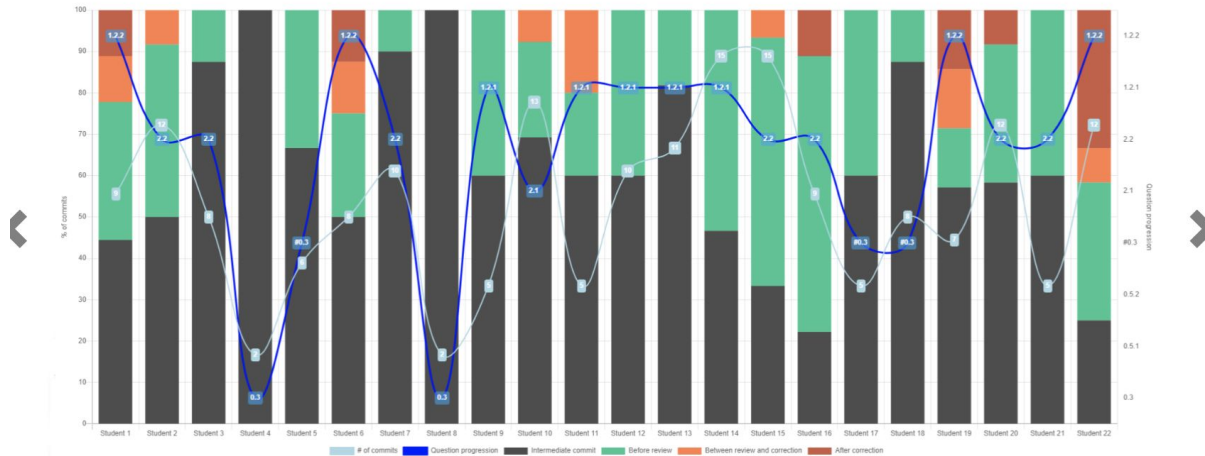
DELETE

/workspaces/{workspaceId} Deletes a workspace

Git4School

Git4School est une application qui aide les enseignants à suivre les progrès de leurs élèves lors des séances de travaux pratiques en utilisant Github. Il offre plusieurs outils pour accompagner au mieux vos étudiants lors des travaux pratiques.

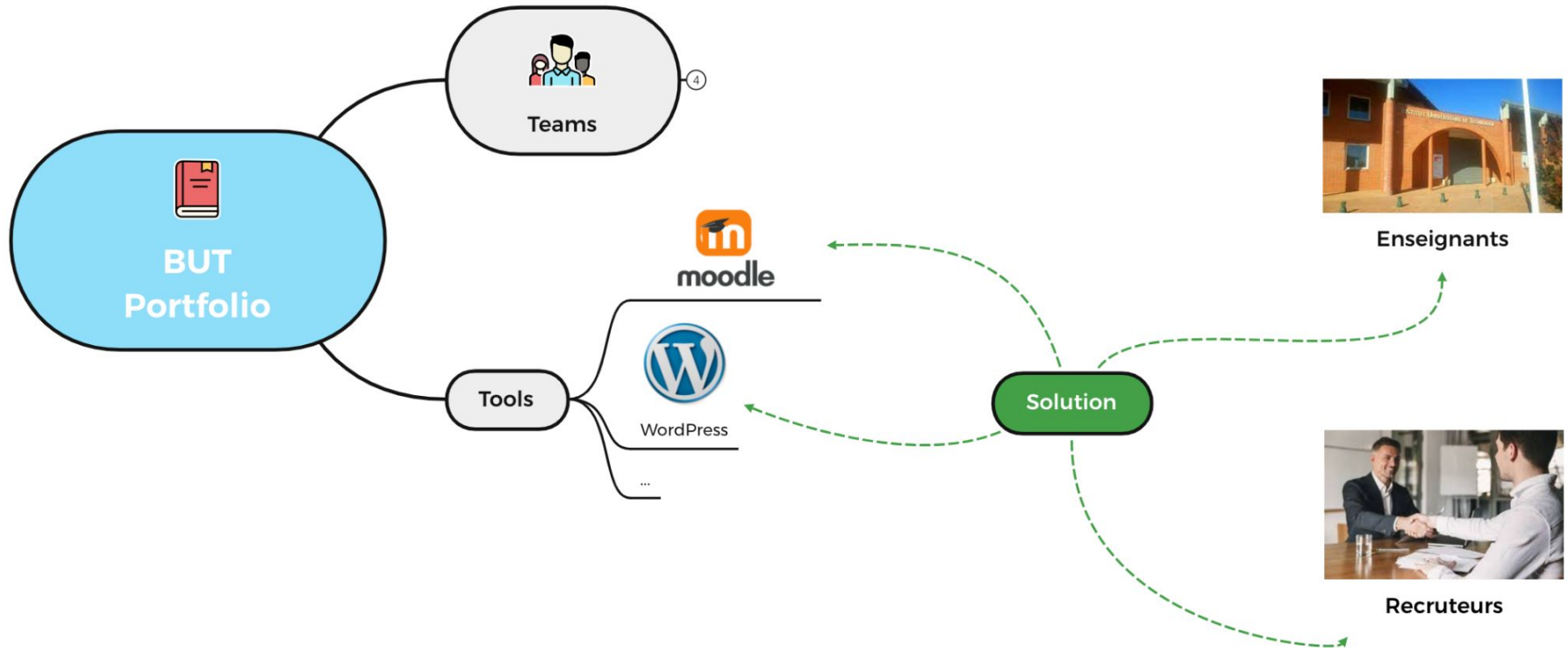
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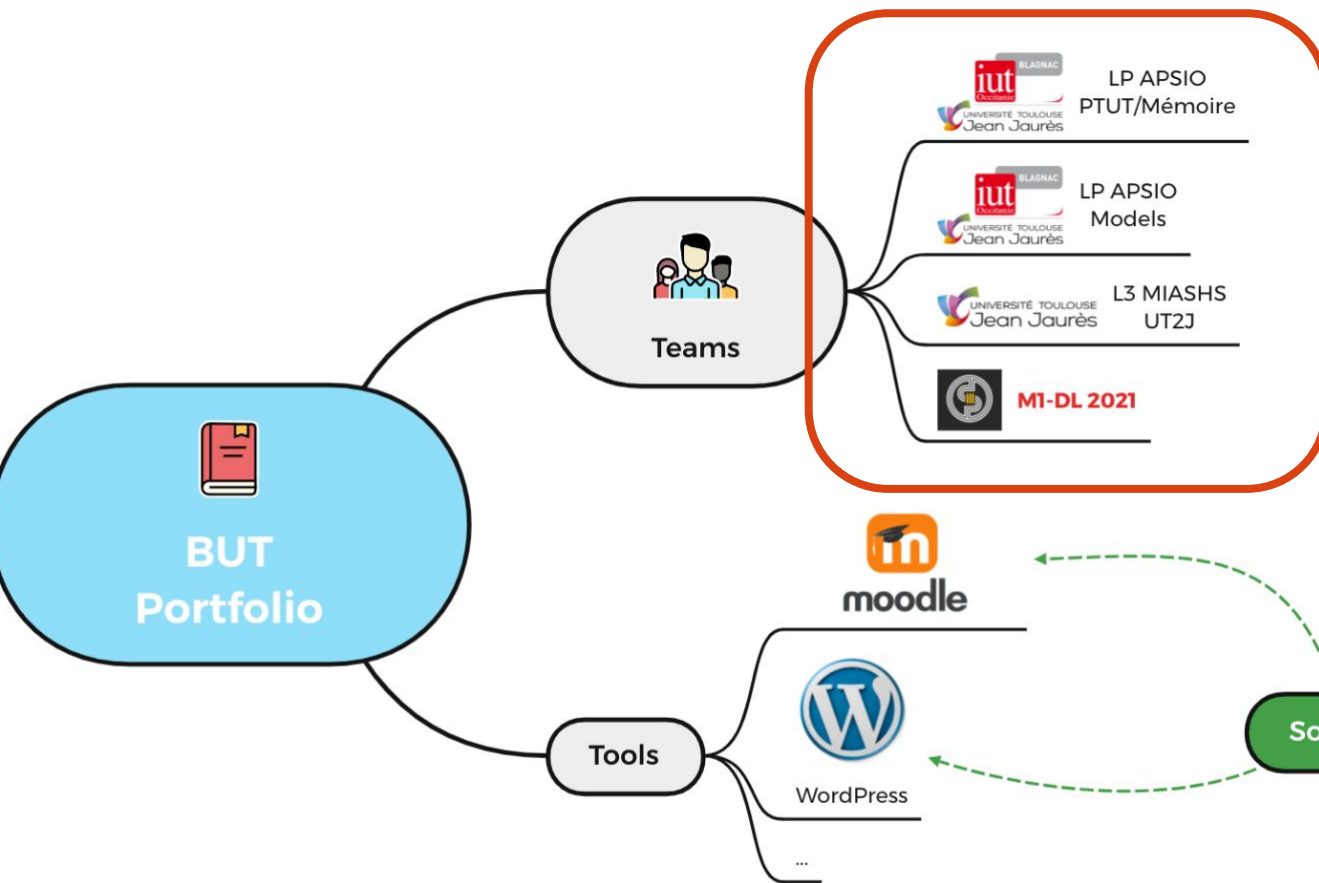


<https://git4school.github.io/>

Portfolio

Portfolio





Enseignants



Evaluation Formative



Just ask them with elaastic!



Question

Teachers ask their students using closed or open ended questions during face to face or distance courses.



Answers

Learners answer the question providing written argumentation. They are asked on their confidence degree.



Confrontation of point of view

Learners anonymously access the contributions of others, give their opinion and possibly change their answer

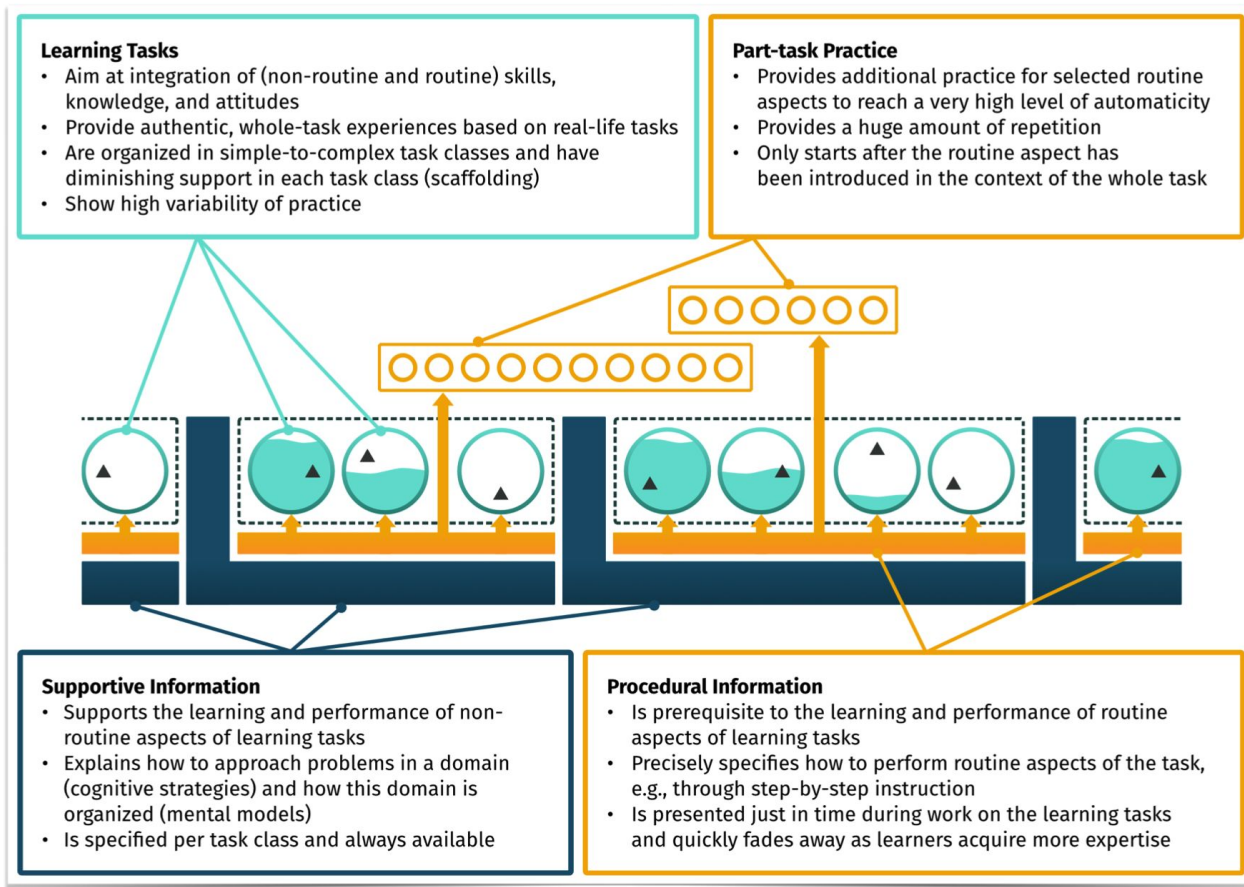


Share results and remediate

The sequence ends with a sharing of the results creating the opportunity for the teacher and the learners to discuss their contributions and their assessments.

<https://www.irit.fr/elaastic/>

Instructional Design



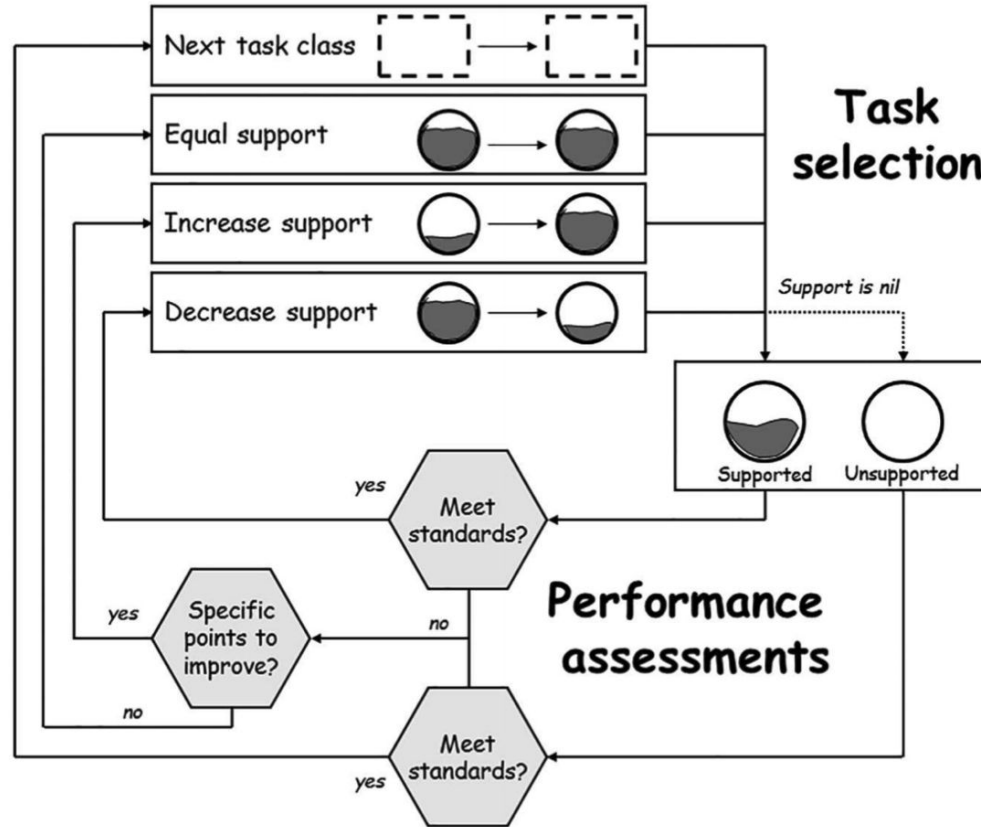
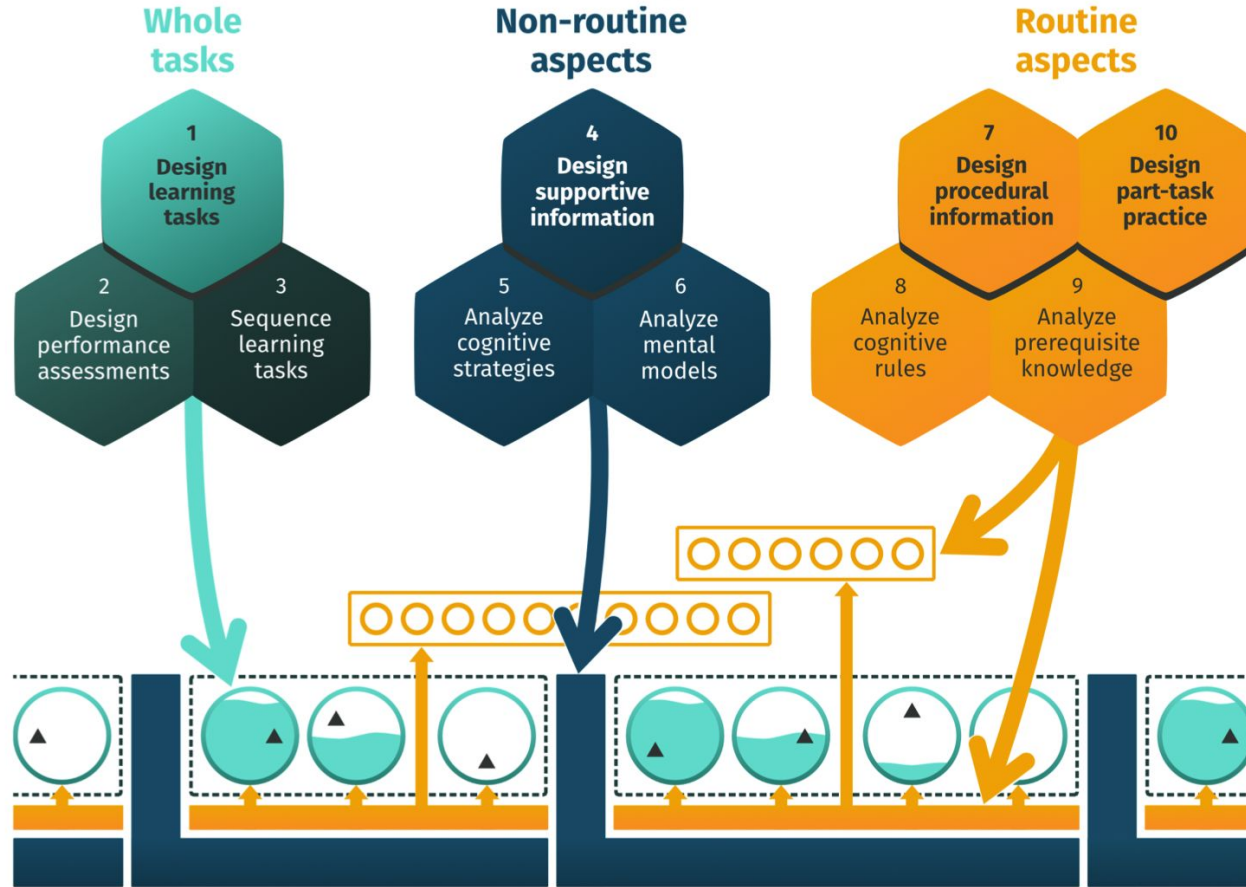


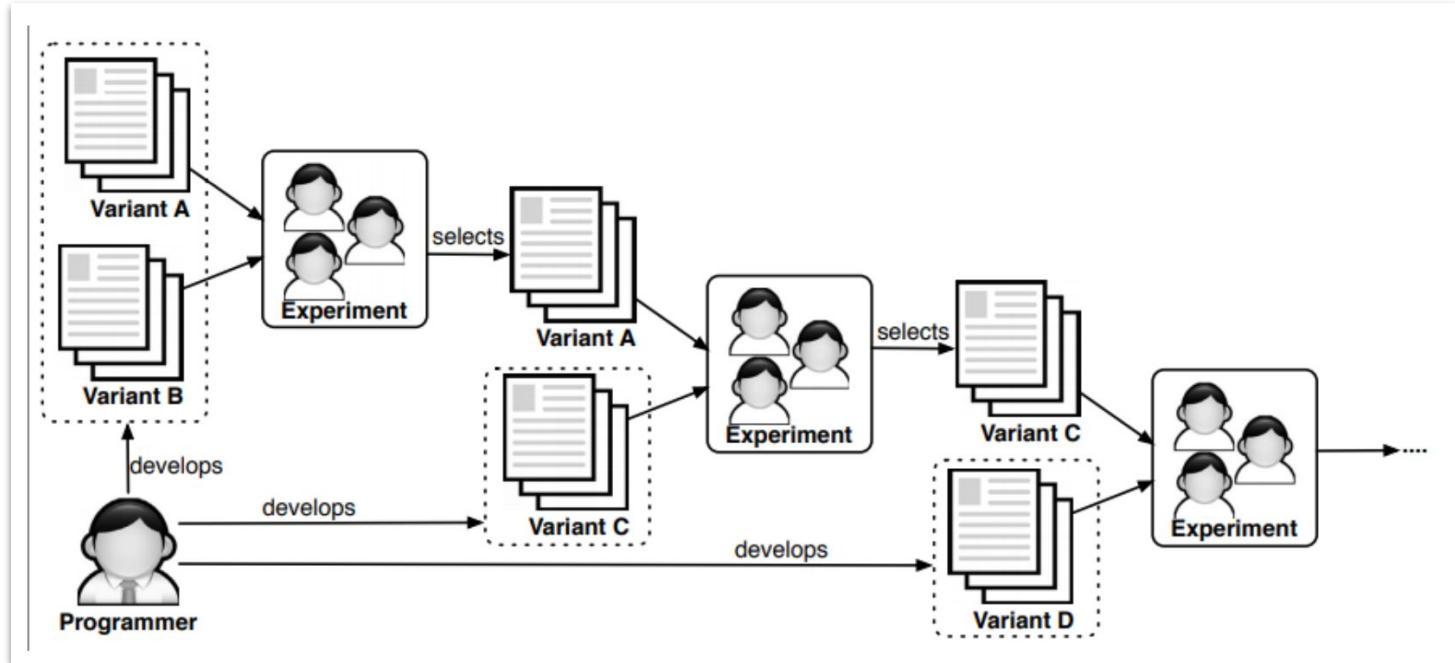
Figure 2.3 The cycle for dynamic task selection based on continuous assessment of individual performance on learning tasks.

4C/ID



Learning analytics

A/B Testing Environment



Intelligent Tutoring System

SIT (Alemira)

Digital Ecosystem for education and learning

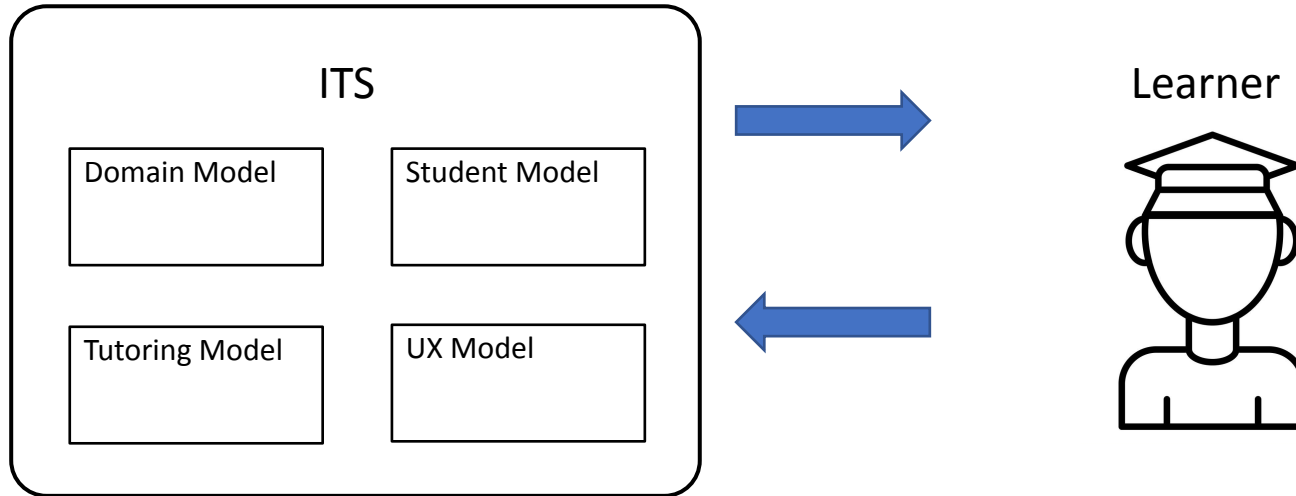
Solutions | Products

Education, student, resource and alumni management — all in one place. [Explore →](https://alemira.com/)



<https://alemira.com/>

Architecture



Ongoing efforts

- GitSupervisor
- Git4school
- Elaastic
- 4C/ID
- A/B Testing Environment

Ph.Ds

1. Ildar (SiT)



2. Mika (UPS)



3. Nursultan (Innopolis)

TALENT

Teaching And Learning Enhanced by Technologies

Collaborations?

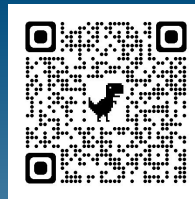
Possibilities

- Students experiments
- Ph.D. co-supervision
- Student exchange
- ...

Help needed

Nursultan Ph.D.

- Variability
- Mobile app
- Data-driven
- **No ZRR**



Thanks for watching!

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