Full Integration
Content Creation
Project

InDesign
QSystems - Q4
Vicens Vives Digital
Learnetic - mAuthor
INTRODUCTION
Digital Department. Who we are.

- Despite Vicens Vives is a company with 60 years of experience in the traditional scholar publisher sector, has also a strong digital commitment.

- Vicens Vives is willing to innovate in the K12 education, combining technology and latest pedagogical trends.

- Digital Department's mission is to achieve this innovation degree with the imprint of quality that is Vicens Vives’s hallmark in Spain and Latin America.
Digital Department. How we are organized.

- Digital Department is organized in **5 Agile Teams** (Squads), the Squads are small teams, multidisciplinary and have end-to-end responsibility.

- Following the Agile principles, we use 2 weeks **Kanban** cycles to deliver value in our production systems to our users.

- One of our Squad’s Mission (**Content Squad**) is to develop the required tool (**Content Manager**) to produce and integrate different sources of Digital Content.
Digital Department. Technology.
Digital Department. How we work.

- Everyone in the squad is involved into the software design following a Continuous Integration/Continuous Delivery approach.

- We emphasize testability having always present Clean Code and SOLID Principles.

- We apply TDD, Refactoring and Pair programming on a daily basis as Extreme Programming practices in order to ensure a high software quality deliver.
Digital Ecosystem. Some Numbers.

- **Edubook Online**: Our Online Book - 40 releases
- **Edubook Web**: Our Platform - 79 releases, **Backoffice**: 83 releases
- **iOS Version**: 49 releases, **Android Version**: 34 releases
- **Offline Desktop Version**: Windows, Linux and MacOS - 10 releases
- **Content Manager**: Content Creation Manager Software - 41 releases
- **LMS Interoperability support**: LTI and Marsupial - 19 releases
THE PROJECT
Key Project. Automatic Content Creation

- We need to integrate our paper publish process with our digital publish process. Nowadays two processes are completely separated.

- For Vicens Vives is a critical cost factor to gain efficiency in content production process.

- Is probably the most important project that the Digital Department has to achieve in the following months.
Digital Department Goals. Why.

- Once we achieve the full integration, we will be able to address the following strategic projects for the company:

1) **Project Based Learning Content**

2) **Gamification Content**

3) **Secondary Education Content**

4) **Learning Analytics associated**

Paper Editor → Adobe InDesign (Id) → Q4 → GitHub → Student

PDF → Digital Editor

mAuthor + FLIPHTML5 → b
Overall Picture. New Process.

Paper Editor → client → ID → Github → Q4 → mAuthor → b → Digital Editor

Student
mAuthor API. Next Steps

- Today we are getting Lessons detail info, exporting and downloading them. We are integrating these Lessons, throw our Content Manager, in our Primary Education offer inside Flipbooks.

- To achieve what is shown in the previous diagram, we need to automatically create content. And put all our human efforts into the activities creation.

- Basically this means, be able to create the structure (project, publications, lessons and pages) and the content (text, image or media modules).
mAuthor API: Structure Management Calls

● Projects:
  ○ Create / Delete
  ○ Update/Rename a given project
  ○ Get Project List [done]
  ○ Get Project Info
  ○ Archive/Backup Project

● Publications:
  ○ Add (inside a given project) / Delete
  ○ Update/Rename a given publication
  ○ Get Publications List (from a given project) [done]
  ○ Get Publication Info
mAuthor API: Structure Management Calls

- **Space:**
  - Add-Create (inside a given publication) / Delete
  - Get Spaces List (from a given publication) [done]

- **Lessons:**
  - Add-Create (inside a given project) / Delete
  - Update/Modify Properties and Metadata
  - Get List (from a given subspace/publication/project) [done]
  - Get Lesson Details [done]
  - Get History Change Info (List Versions)
  - Update Assets (to cleanup unnecessary space usage)
  - Export Lesson and Download (with callback URL) [done]
mAuthor API: Content Management Calls

- **Pages:**
  - Add Main Pages (inside a given Lesson)
  - Add Footer/Header Page (Commons)
  - Add Page Template
  - Update/Modify Properties (Name, Width, Height, ScoreType, ...)
  - List Pages (from a given Lesson)
  - Assign Template
  - Assign Styles (css class, inline class)
mAuthor API: Content Management Calls

● **Basic Modules (Addons):**
  ○ Add (inside a given Page) a Module (text, lists, tables and media types) / Delete
  ○ Update/Modify Module Properties
  ○ Upload Asset / Associate Asset (web image optimization parameters) From DAM?
  ○ Assign Styles (css class, inline class)

● **Private Modules (Addons):**
  ○ Create Private Module / Delete
  ○ List Private Modules
  ○ Push code changes to Presenter/Model/CSS/View/Preview context.
  ○ Get code from Presenter/Model/CSS/View/Preview context
Other Important Technical Issues Related

- **WIRIS Integration and/or full LaTex compatibility for advance Maths:**
  - We need to create for Secondary Education more complex maths activities that requires full WIRIS Editor or full LaTex compatibility.
  - For instance ticket: 5488076671156224 -- wideparen accent not supported by MathJax library used.

- **Automatic Web Image Optimization:**
  - Once we upload Assets (image type) would be nice that could be automatically optimized for web consumption.
  - Would be great it this could be parameterizable (resolution, dpi, width, height)
Some Feedback.

- Improve and group the **Technical Documentation**, sometimes we are not aware of all the things that can be done (ex. player doc)

- Improve **Usability of Projects Management**, Is hard for our Digital Editors to manage the amount of projects we generate.

- Overall **Congrats for the software and thanks for the quick support you give us!**
THANKS