
PRÁCTICAS VIRTUALES PARA OPTIMIZAR LAS REALES

David Romero

MOTIVOS

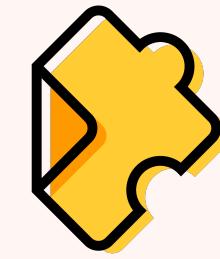
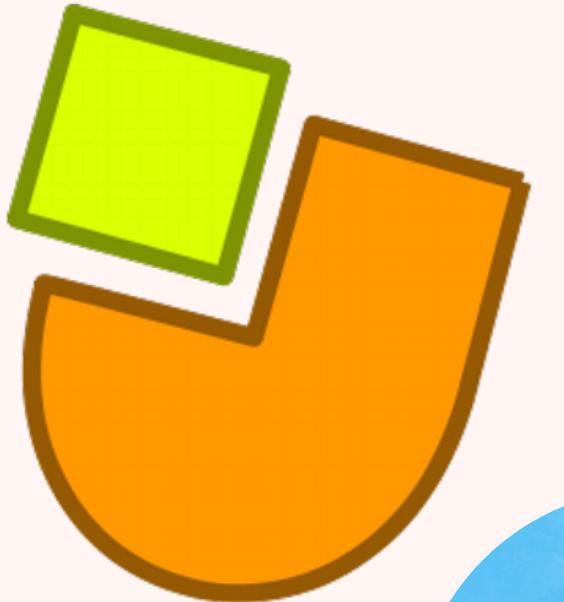
- Escasez de recursos materiales
- Poca capacidad de retención de la explicación
- Falta de retroalimentación continua
- Escasa comprensión lectora



ELECCIÓN DE LA HERRAMIENTA



iSpring



edpuzzle

BRANCHING SCENARIO

H5Phub Select content type

Create Content Upload Paste

Search for Content Types

Branching Scenario (beta)

Joubel

Branching Scenario allow authors to present the learners with a variety of rich interactive content and choices. The choices the learners make will determine the next content they see. May be used to create dilemmas, serious games, and self-paced learning.

Content Demo

Use

The screenshot shows the H5Phub platform's content creation interface. At the top, there's a navigation bar with the H5Phub logo, a dropdown menu, and tabs for 'Create Content' (which is selected) and 'Upload'. Below the navigation is a search bar with the placeholder 'Search for Content Types'. The main content area features a title 'Branching Scenario (beta)' by 'Joubel'. A descriptive text explains that branching scenarios allow authors to present learners with a variety of rich interactive content and choices, which determine the next content based on learner decisions. It also mentions that they can be used to create dilemmas, serious games, and self-paced learning. Below this text are five small screenshots showing different stages of the branching scenario, such as a tree diagram with green and red nodes and various interactive elements like dropdown menus and images of historical figures. At the bottom right of the main content area is a large blue button labeled 'Use'.

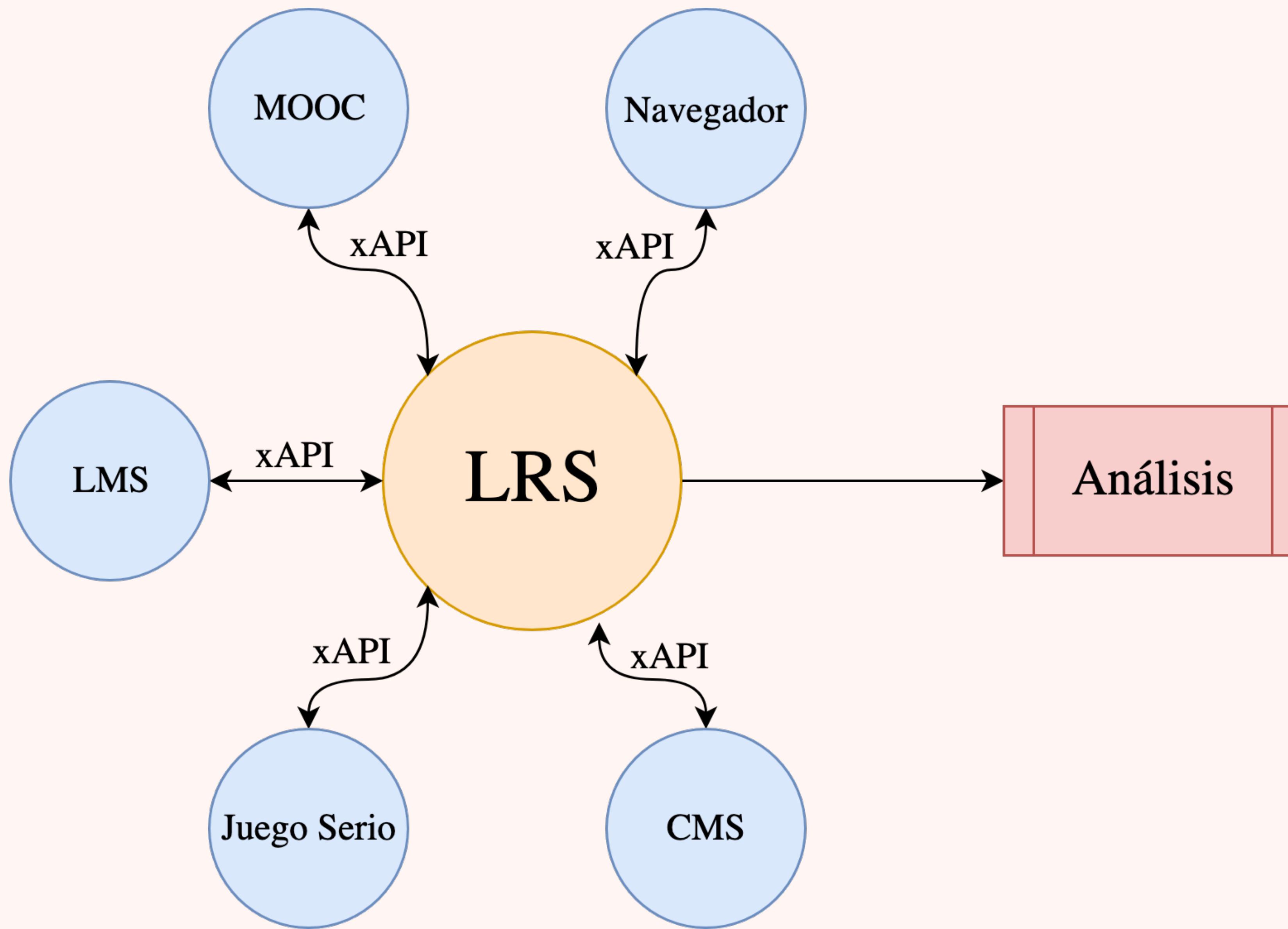
EXPERIENCE API (XAPI)

David visualizó un vídeo

Actor

Verbo

Objeto



LEARNING LOCKER - LRS

The screenshot displays the Learning Locker interface, specifically the Statements section. The left sidebar includes navigation links for UCA, Data (selected), Source, Statement Forwarding, People, and Settings. The main area features a squirrel icon and a search bar labeled "Select a saved query". Below this are filters for "Who", "Did", "What", "Where", "Metadata", "Result", "When", and "Store". To the right, a list of statements is shown, starting with "student completed Escenario de prueba" and "student progressed Interactive content: Escenario de prueba". A "Load more" button is at the bottom.

Statements

Explore

Select a saved query

Who Did What Where Metadata Result When Store

student completed Escenario de prueba

student progressed Interactive content: Escenario de prueba

student progressed Escenario de prueba

student progressed Interactive content: Escenario de prueba

student progressed Escenario de prueba

student progressed Interactive content: Escenario de prueba

student attempted :

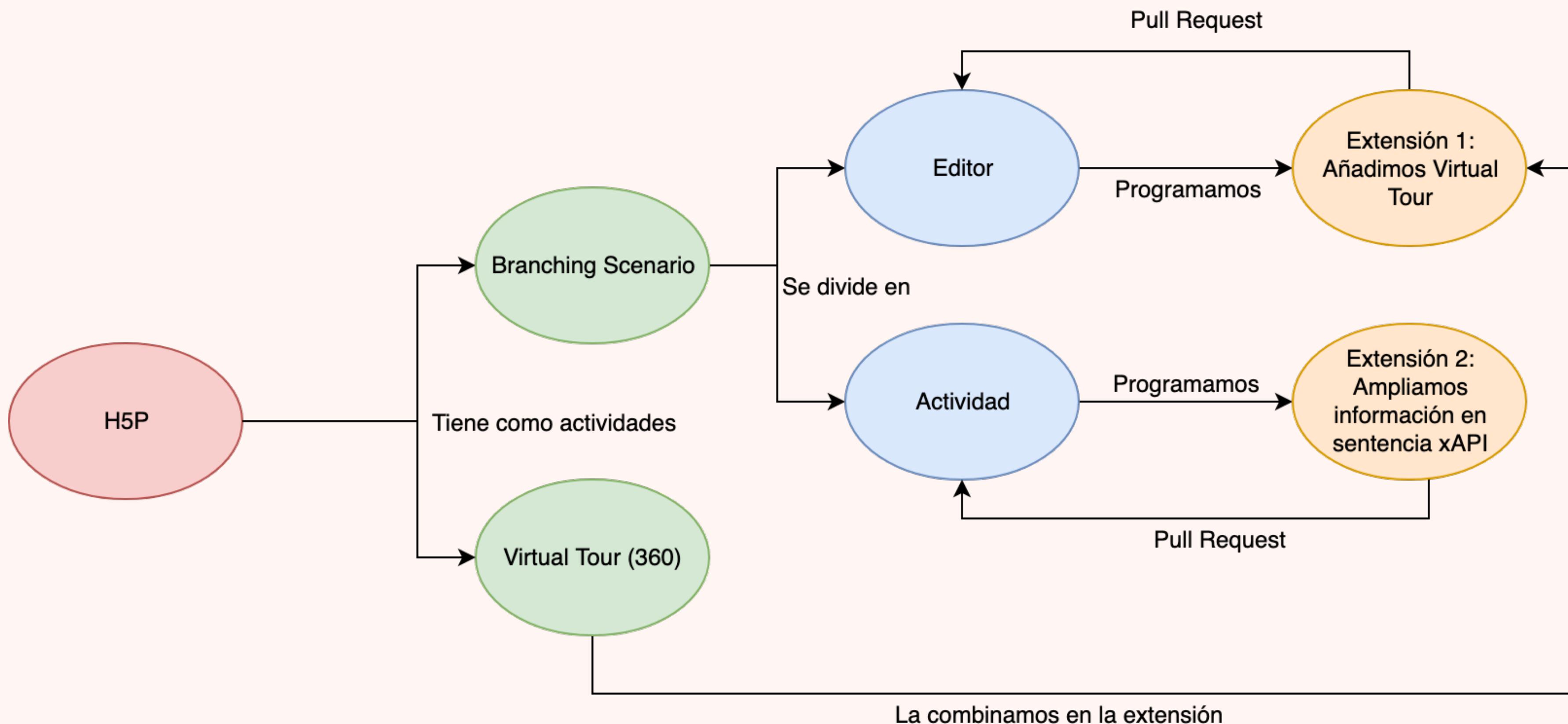
student attempted :

student attempted http://192.168.1.138/node/5

student attempted http://192.168.1.138/node/5

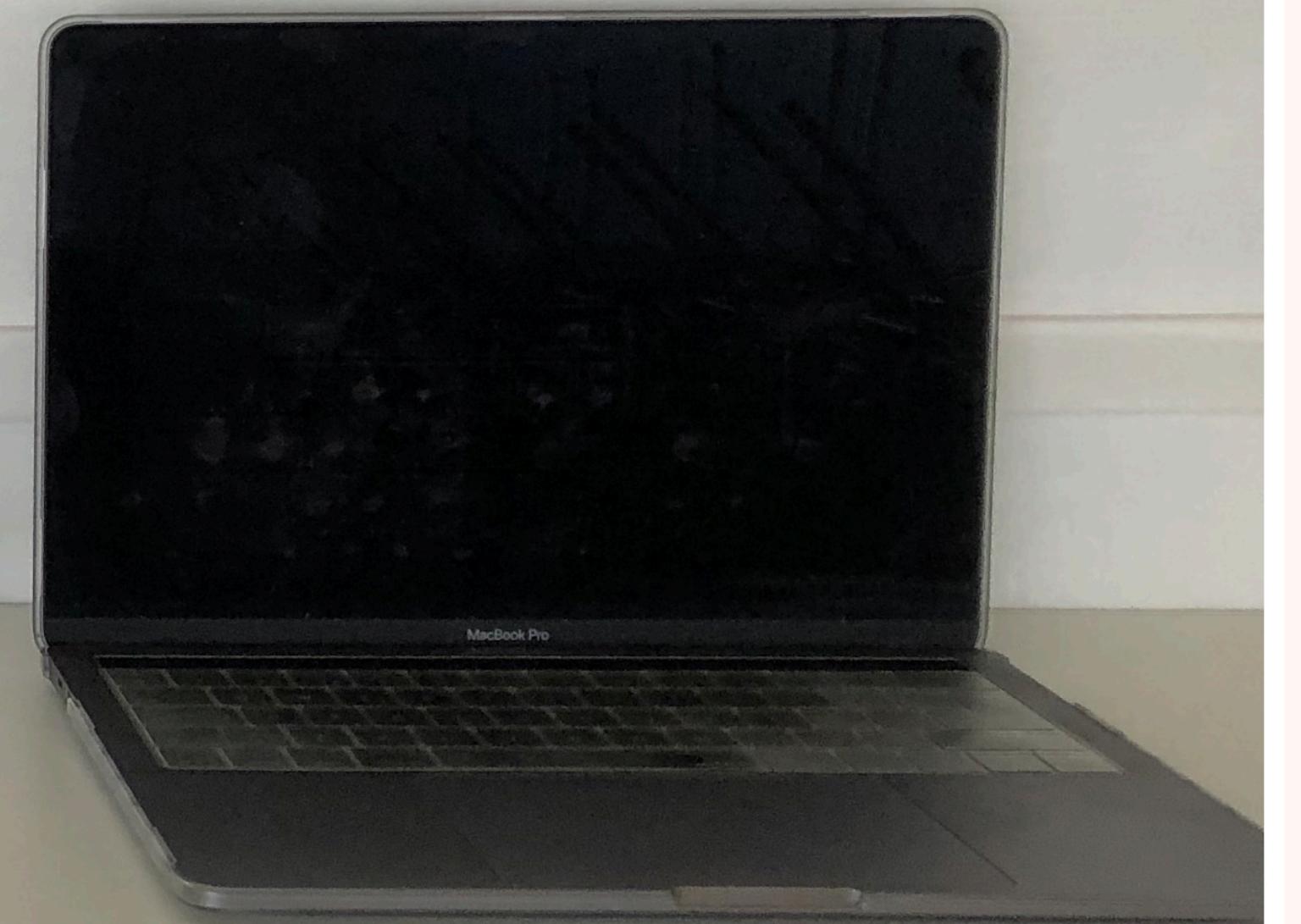
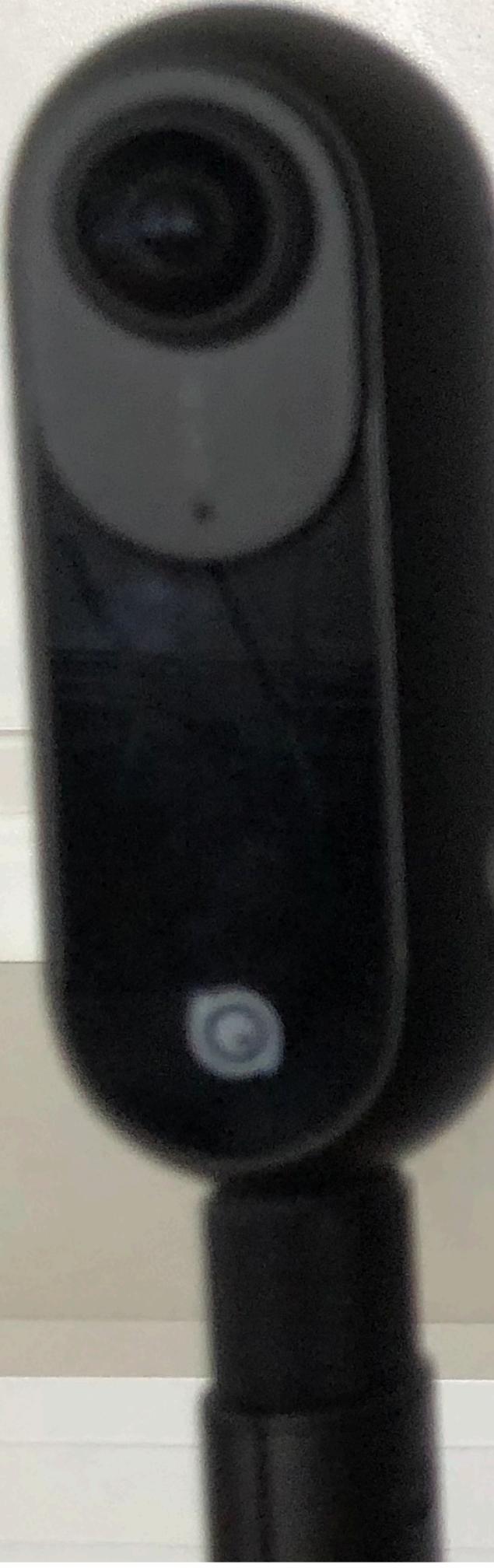
Load more

MODIFICACIONES

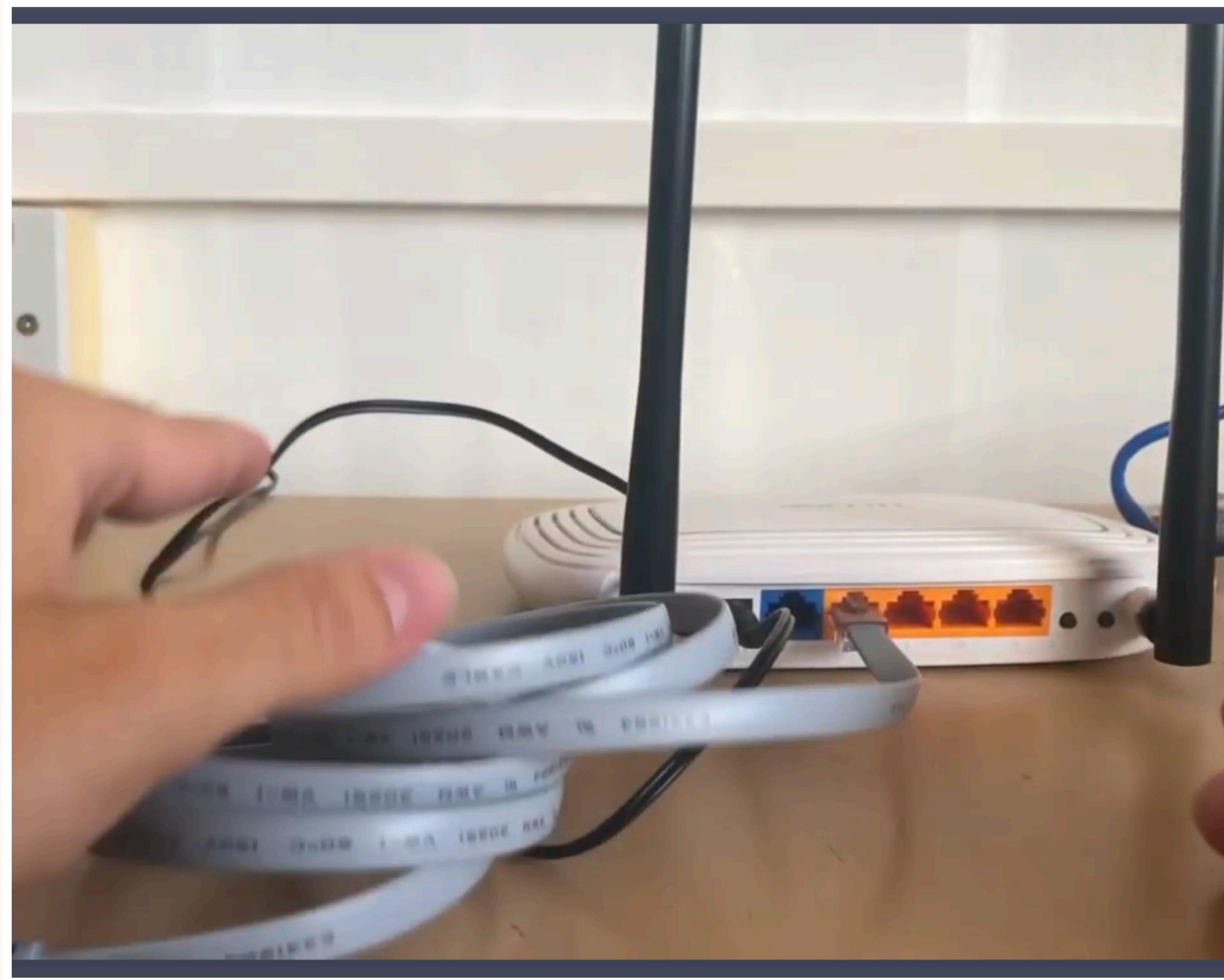


CASO APLICADO









Práctica - Configura tu router doméstico

Siguiente >

¿Qué tipo de cable eliges?

Latiguillos RJ-45 →

Cables de consola →

Tu puntuación: 0 / 80

¡No lo has conseguido!

cables de consola se utilizan para configurar routers o switches empresariales. Intenta hacerlo de nuevo.

C Reiniciar la práctica

USO BRANCHING SCENARIO

Enter title here

PREVIEW Proceed to Save

Tutorial

Learn how to use **Branching Scenario** editor

Branching scenario is a content type for creating decision-based paths
Use it to make learning materials that branch to different paths based on user's answers

Step 1: Title

- Start by adding a title. The title will identify the content in the list of H5Ps and won't be visible for the user.

Enter title here

PREVIEW

Info Content Course Presentation Text

No content has been added yet

To create content drag the icons from the left menu to the dropzone below

Enter title here

PREVIEW

Proceed to Save



Info Content ⓘ



Course Presentation



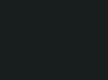
Text



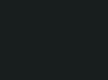
Image



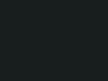
Image Hotspots



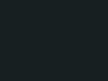
Interactive Video



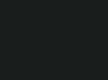
Video



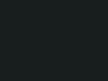
Branching Content ⓘ



Branching Question



Reuse Content ⓘ



Paste

Quick Info Show

Sin título Course Pr...

Sin título Image

1

A1

A2

Sin título Course Pr...

Sin título Text

MÓDULOS USADOS EN DRUPAL

<input checked="" type="checkbox"/>	H5P	7.x-1.43	Upload interactive HTML5 Packages to your Drupal site. Required by: H5P Tincan Bridge (disabled), H5P Editor (enabled)	 Permissions	 Configure
<input checked="" type="checkbox"/>	H5P Editor	7.x-1.43	Create and modify interactive HTML5 Packages on your Drupal site. Requires: H5P (enabled)	 Permissions	
	Libraries	7.x-2.5	Allows version-dependent and shared usage of external libraries. Requires: System (enabled)	 Permissions	
<input checked="" type="checkbox"/>	Tin Can API	7.x-2.0-alpha3	Provides integration with the Tin Can API. Requires: Libraries (enabled), System (enabled) Required by: H5P Tincan Bridge (disabled), Tin Can API (SDK) (enabled), Tin Can API (Content Types) (disabled), Tin Can API (h5p) (enabled), Tin Can API (Links) (disabled), Tin Can API (Media) (disabled), Tin Can API (profile) (disabled), Tin Can API (Quiz) (disabled)	 Permissions	 Configure
<input type="checkbox"/>	Tin Can API (Content Types)	7.x-2.0-alpha3	Tin Can API reporting for specific content types. Requires: Tin Can API (enabled), Libraries (enabled), System (enabled), Tin Can API (SDK) (enabled) Required by: Tin Can API (Media) (disabled)		
<input checked="" type="checkbox"/>	Tin Can API (h5p)	7.x-2.0-alpha3	Tin Can API reporting for h5p videos. Requires: Tin Can API (enabled), Libraries (enabled), System (enabled), Tin Can API (SDK) (enabled)		

CONFIGURACIÓN LL - DRUPAL

Learning Locker

-  UCA
-  Data
-  People
-  **Settings**
- Stores
- Users
- Organisations
- Clients**

Clients

xAPI Endpoint: <http://10.0.4.83/data/xAPI>

▼ Almacen xAPI

Title
Almacen xAPI

Enabled?

Key
fb4abbb503cba13621e31c1f5aae6161c8da27ce

Secret
0355a2a13d2c3df0e0e4c5e14f7eb87ffc4104d0

API SETTINGS

Endpoint *

The server endpoint. Do not include a trailing slash.

User *

The basic authentication user.

Password *

The basic authentication password.

Track anonymous users.

Log server response.

Simplify statements IDs (convert https urls to http)

BRANCHING SCENARIO MODIFICADO

Enable H5P development mode

Always update uploaded H5P libraries regardless of patch version. Read library data from file (semantics.json).

Enable library development directory (For programmers only)

Check to enable development of libraries in the *sites/default/files/h5p/development* folder. ONLY ENABLE THIS OPTION IF YOU KNOW WHAT YOU ARE DOING! YOUR SITES H5P DATA WILL BE RUINED BY ENABLING THIS OPTION

Dentro de carpeta development

git clone <https://github.com/DavidLMS/h5p-branching-scenario>

git clone <https://github.com/h5p/h5p-branching-question>

git clone <https://github.com/h5p/h5p-editor-branching-scenario>

git clone <https://github.com/h5p/h5p-editor-branching-question>

git clone <https://github.com/h5p/h5p-material-design-icons.git>

mv h5p-branching-scenario H5P.BranchingScenario

mv h5p-branching-question H5P.BranchingQuestion

mv h5p-editor-branching-scenario H5PEditor.BranchingScenario

mv h5p-editor-branching-question H5PEditor.BranchingQuestion

Dentro de las carpetas de cada uno de los Scenario

sudo npm install

Si apareciese un error en el comando anterior:

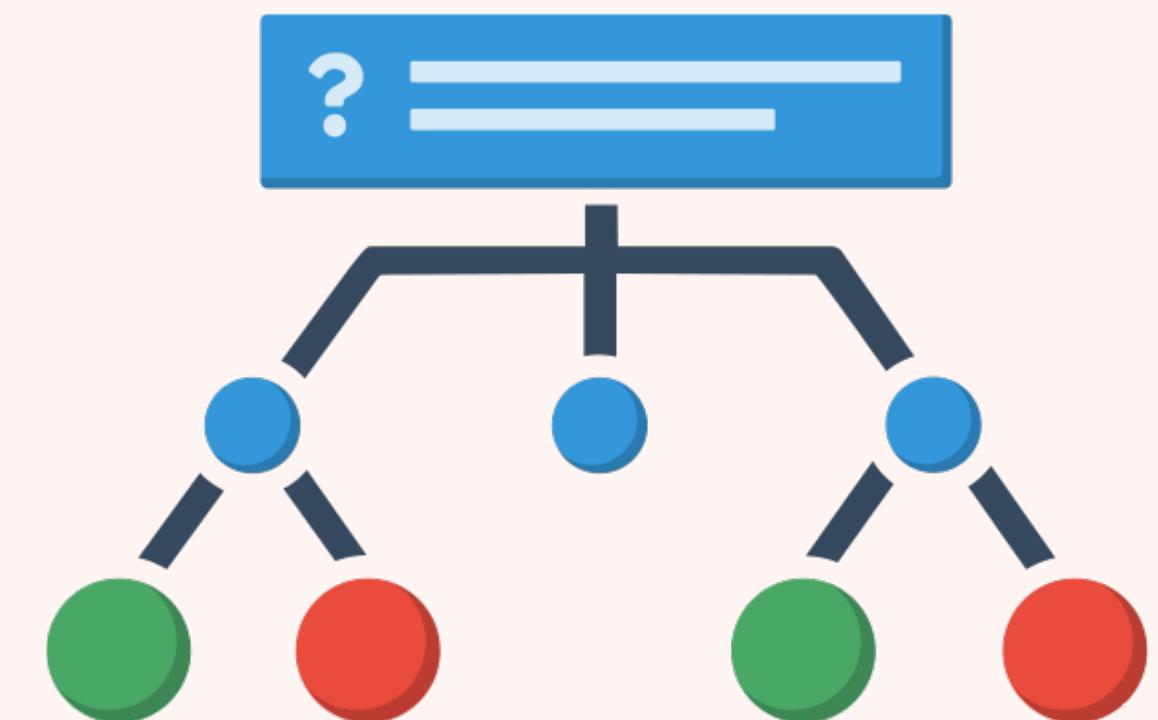
sudo npm install -g --unsafe-perm=true –allow-root

sudo npm audit fix

sudo npm run-script build

OTRAS POSIBLES APLICACIONES

- Creación de casos aplicados en la empresa para evaluar la preparación de la FCT
- Competiciones virtuales o con escasos recursos materiales
- Evaluación de candidatos en un proceso de selección
- Sustitución de prácticas reales como último recurso



MÁS INFORMACIÓN

- **Repository del PechaKucha:** <https://github.com/ DavidLMS/ PresentacionPracticasVirtualesParaOptimizarLasReal es>
- **Trabajo de Fin de Máster:** <https://rodin.uca.es/xmlui/handle/10498/21831>
- **Artículo:** <https://ieeexplore.ieee.org/document/ 8970117>



¡MUCHAS GRACIAS!

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