




SmartEval

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Desenvolupament d'una aplicació
d'exàmens en línia



Index

- Introducció
- Anàlisi i especificacions
- Disseny
- Arquitectura
- Demo
- Conclusions

Introducció

Context de treball

- Situació COVID-19
- Desplaçament a plataformes digitals
- Eina de la UOC - Només accessible per navegador
- Manca de supervisió en línia

Introducció

Objectius

Principals

- Client d'escriptori
- Base de dades
- Servidor Central
- Estadístiques bàsiques dels exàmens

Secundaris

- Diferents tipus de preguntes
- Supervisió en local dels exàmens
- Estadístiques dels clients

Introducció

Metodologia

Metodologia

- Agile
- Sprints de una setmana
- Ajust de les tasques

Eines

- Gantt
- Kanban

Anàlisi i especificacions

Estudi de mercat

Benchmark

- Plataforma
- Tipus de preguntes
- Estadístiques
- Supervisió

Anàlisi i especificacions

Estudi de mercat

TCEXAM

- Navegador
- Multiresposta, Text
- Estadístiques generals d'examen
- Autenticació

2010-12-02 08:19:04

Index users modules tests backup public help info logout

Multiple-Answer Management

module 2. + module 01 ▾
topic 1. + topic 01 ▾
question 1. S What is the capital of Swaziland? ▾
answer ▾

answer preview Mbabane

explanation preview hide Mbabane (Swat: Eḿbábáne), with an estimated population of 95.000 (2007), is the capital and largest city of Swaziland. It is located on the Mbabane River and its tributary the Polinjane River in the Mdiaba Mountains. It is located in the district of Hhohho, of which it is also the capital.

right
enabled
position ▾
selection key ▾

add clear

< Question Management

preview

With this form you can manage all possible answers related to the question selected. You can add an arbitrary number of correct and wrong answers for each question; during the test the system will automatically select only one of the correct answers and will show it in the list of possible answers. You cannot modify or delete an answer that is part of a test already performed, in this case you can just disable it by using the [delete] button. Legend: [+] Enabled; [-] Disabled. Legend for questions: [S] MCSA - Multiple Choice Single Answer question; [M] MCMA - Multiple Choice Multiple Answer question; [T] TEXT - Free Fnswer; [O] ORDER - Ordering Answer. Legend for answers: [T] true answer; [F] false answer.

user: admin logout

AR BG BR CN DE ES FR HI HU ID IT JP KR MS NL PL RO RU TR VN
TCEXAM ver. 11.1.009 - Copyright © 2004-2010 Nicola Asuni - Tecnick.com S.r.l.
W3C XHTML 1.0 W3C CSS 2.0 W3C WAI-AAA

Anàlisi i especificacions

Estudi de mercat

Kaldin

- Navegador
- Multiresposta, Text
- Estadístiques generals d'examen
- Autenticació

The screenshot shows the 'Add Question' interface in a web browser. The browser address bar shows the URL: `http://localhost:8080/kaldin/newQuestion.do?subjectId=null&topicId=0&complexity=null`. The page title is 'Add New Question - Kaldin...'. The navigation menu includes 'Dashboard', 'Questions', 'Exams', 'Users', 'Certificates', 'testing', 'Settings', 'Logout', and 'Results'. The left sidebar contains 'Questions', 'Question Category', 'Question Sub-Category', 'Complexity', and 'Import Questions'. A yellow tip box states: 'Arrange questions into categories, sub-categories and their complexities. makes it easy to group and find questions. Question paper can contain combination of questions from different categories and complexities giving you an ability to design much simpler to most complex exams you like.'

The main form fields are:

- Category: C Programming
- Sub-Category: Select Sub category: (optional)
- Complexity: Expert (optional)
- Question: This is a Softpedia test
- Options: 2
- Option A: Visit us at win.softpedia.com
- Option B: (empty)
- Answer Type: Single Choice Multiple Choice Subjective
- Correct Answer: A
- Show Options As: Radio Button Check Boxes
- Hint: (empty)

Buttons at the bottom: 'Save Question' and 'Save and Add Another Question'.

Anàlisi i especificacions

Estudi de mercat

Papershala

- Navegador
- Multiresposta, Text
- Estadístiques generals d'examen
- Autenticació i programari adicional

The screenshot shows a web browser window displaying the 'Add New Paper' form on the ABC Coaching website. The browser's address bar shows the URL <https://demo.papershala.com/institute/papers/addnew>. The form is titled 'Add New Paper' and includes the following fields and options:

- Paper Type:** A dropdown menu with the option 'Select paper type'.
- Paper Name:** A text input field with the placeholder 'Enter Paper name'.
- Minimum Percentage Required to Pass:** A text input field with the value '50'.
- Marks Per Question:** A text input field with the placeholder 'Marks per question'.
- Paper Duration (in min.):** A text input field with the placeholder 'Paper Duration'.
- Paper Start date & time:** A text input field with the value '2019-02-22 01:29:26'.
- Paper End date & time:** A text input field with the value '2019-02-22 01:29:26'.
- Allow to view correct answers(After Paper):** Radio buttons for 'Yes' (selected) and 'No'.
- Questions Add Method:** Radio buttons for 'Automatically - System selects question range and No. of questions' (selected) and 'Online'.
- Select user group:** A grid of checkboxes for various user groups: Free, SSC, tt, Jj, neet, OD Jee, mpc, lilly, abc, bnnn, SSB, Some, Feb, and Recruitment Batch 1.
- Negative Marks Per Question:** A text input field with the value 'like .25'.
- Price:** A text input field with the value '0'.

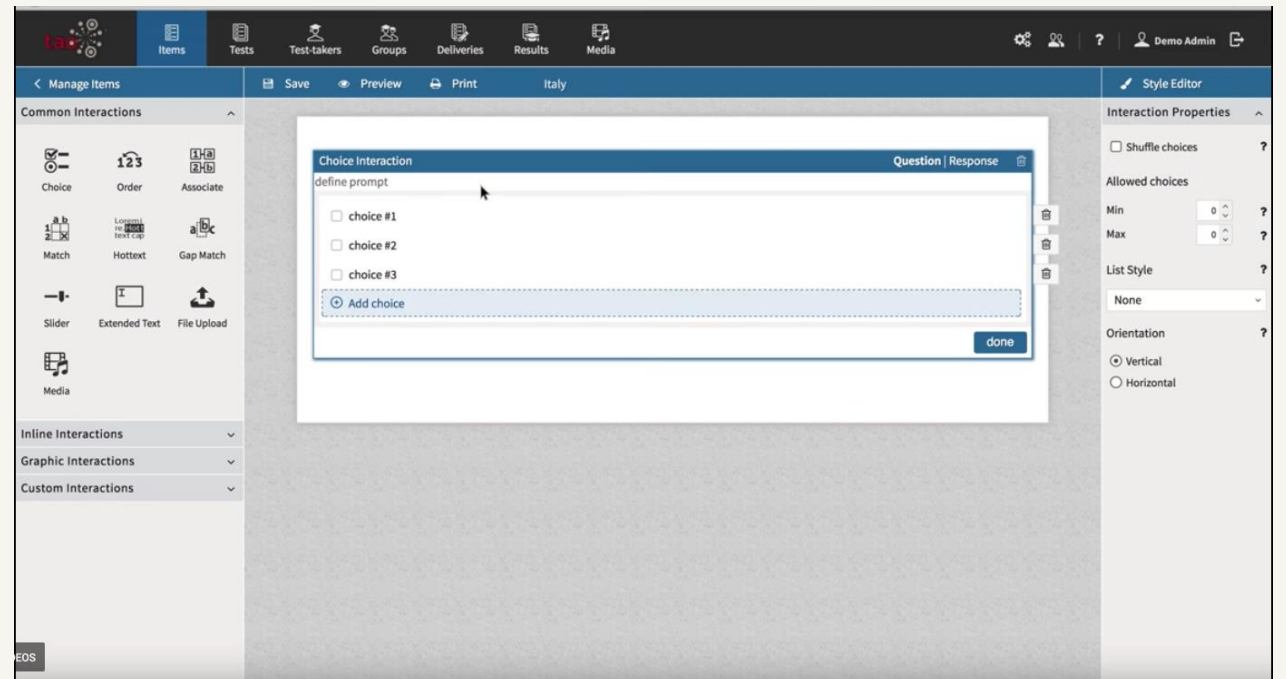
The form also features a rich text editor for 'Paper Instruction' with options for Normal text, Bold, Italic, Underline, Small, and Quote. A green 'Online' button is visible at the bottom right of the form.

Anàlisi i especificacions

Estudi de mercat

TAO

- Navegador
- Multiresposta, Text, Ordre, Mapa
- Estadístiques generals d'examen

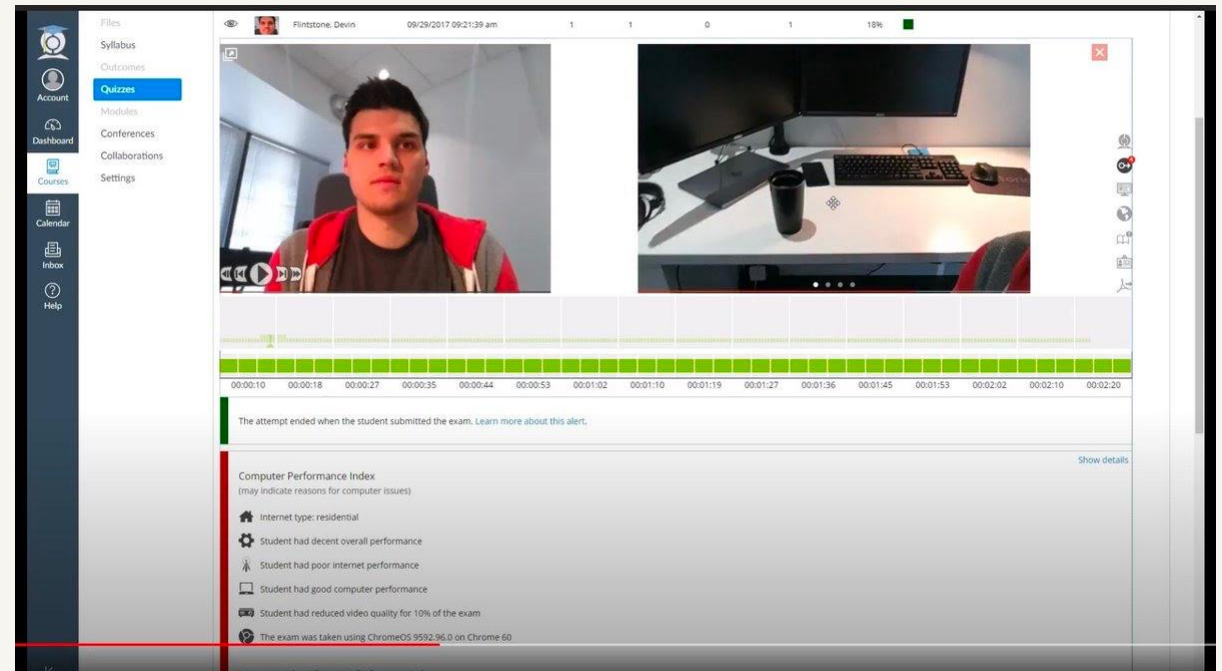


Anàlisi i especificacions

Estudi de mercat

TAO

- Eina externa Proctorio
- Supervisió completa

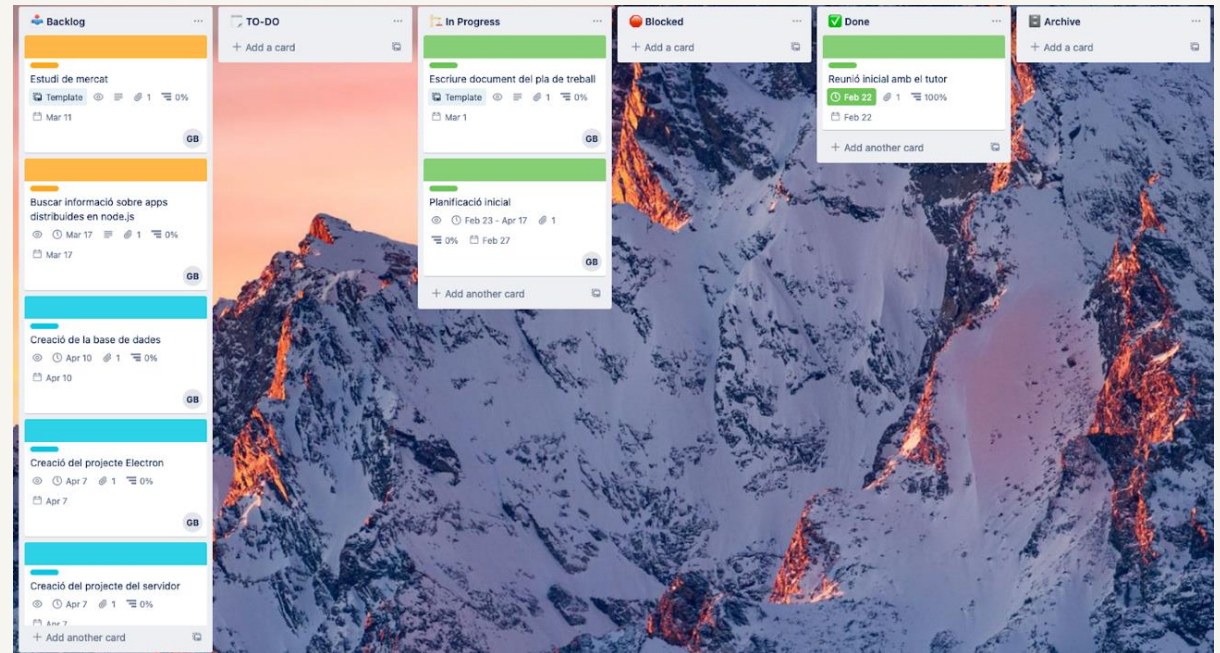


Anàlisi i especificacions

Planificació

Kanban

- Dividit en columnes
- Les tasques tenen estat
- A cada inici de sprint s'actualitza
- Planificació a petita escala

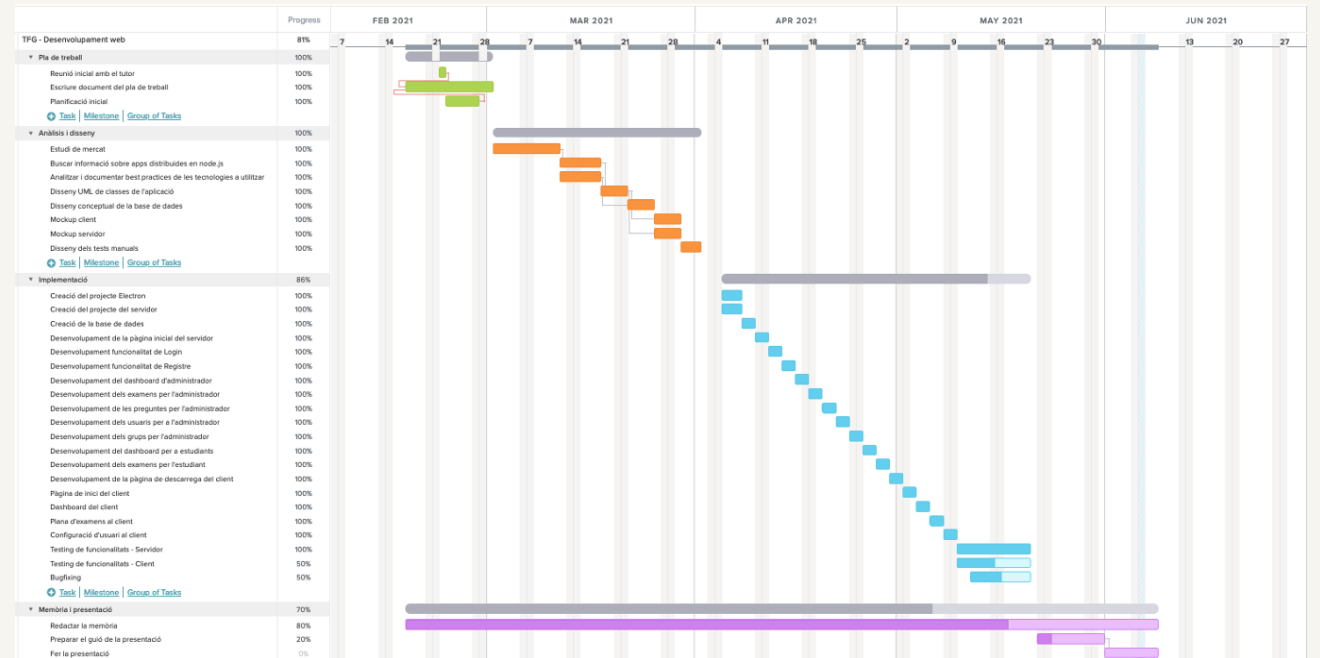


Anàlisi i especificacions

Estudi de mercat

Gantt

- Cronologia de tot el projecte
- Agrupat per entregues
- Planificació a gran escala



Disseny

SmartEval I L

https://www.smarteval.it

Home Features About Login

Log in

Email address
email@example.com

Password
Password

Remember me

Sign in

New around here? Sign up

Forgot password?

Disseny

The screenshot displays the admin dashboard for SmartEval I D. The browser address bar shows the URL <https://www.smarteval.it/admin/dashboard>. The navigation menu includes Dashboard, Exams, Questions, Users, and Groups. The user is logged in as Dale Cooper, with options for Settings and Sign out.

Dashboard

Metric	Value	Action
Total Exams	4	Go to exams
Total Questions	8	Go to questions
Total Users	15	Go to users
Total Groups	16	Go to groups

Exams in progress

Grafs i Complexitat
Anàlisi matemàtic
Enginyeria del programari

Last exams

Àlgebra

Disseny

The screenshot displays the SmartEval I D admin interface. The browser address bar shows the URL <https://www.smarteval.it/admin/exams>. The navigation menu includes Dashboard, Exams, Questions, Users, and Groups. The user profile is Dale Cooper. The main content area is titled "Exams" and features an "Add new exam" button. A table lists the following exams:

Exams	Date	
Fonaments de computadors	18:00 - 06/06/2021	
Estructura de computadors	09:00 - 07/06/2021	
Aprentatge Computacional	10:00 - 13/06/2021	
Mineria de dades	18:00 - 13/06/2021	

To the right of the table is a "Results" section containing a pie chart with three segments of varying sizes, representing the distribution of results for the exams.

Disseny

SmartEval I E

https://www.smarteval.it/user/exams

Dashboard Exams Downloads Dale Cooper

Exams

Exams	Date	Status
Fonaments de computadors	18:00 - 06/06/2021	Completed
Estructura de computadors	09:00 - 07/06/2021	Completed
Aprentatge Computacional	10:00 - 13/06/2021	In progress
Mineria de dades	18:00 - 13/06/2021	Uncompleted

Disseny

The screenshot displays the SmartEval assessment interface. At the top, the title "Fonaments de computadores" is visible. The main content area contains a question: "What is the capital of Swaziland" with three multiple-choice options: Mbabane, Mankayane, and Matsapha. The interface includes a "Progress" sidebar with a grid of colored boxes (green and red) and a "Camera" section showing a user's video feed. Navigation buttons for "Previous" and "Next" are located at the bottom, along with a page indicator: "<< Prev 1 2 3 4 5 6 7 8 9 10 Next >>".

SmartEval

Fonaments de computadores

Questions

What is the capital of Swaziland

- Mbabane
- Mankayane
- Matsapha

Progress

Camera

Previous

<< Prev 1 2 3 4 5 6 7 8 9 10 Next >>

Next

Arquitectura

Tecnologies

Front-end

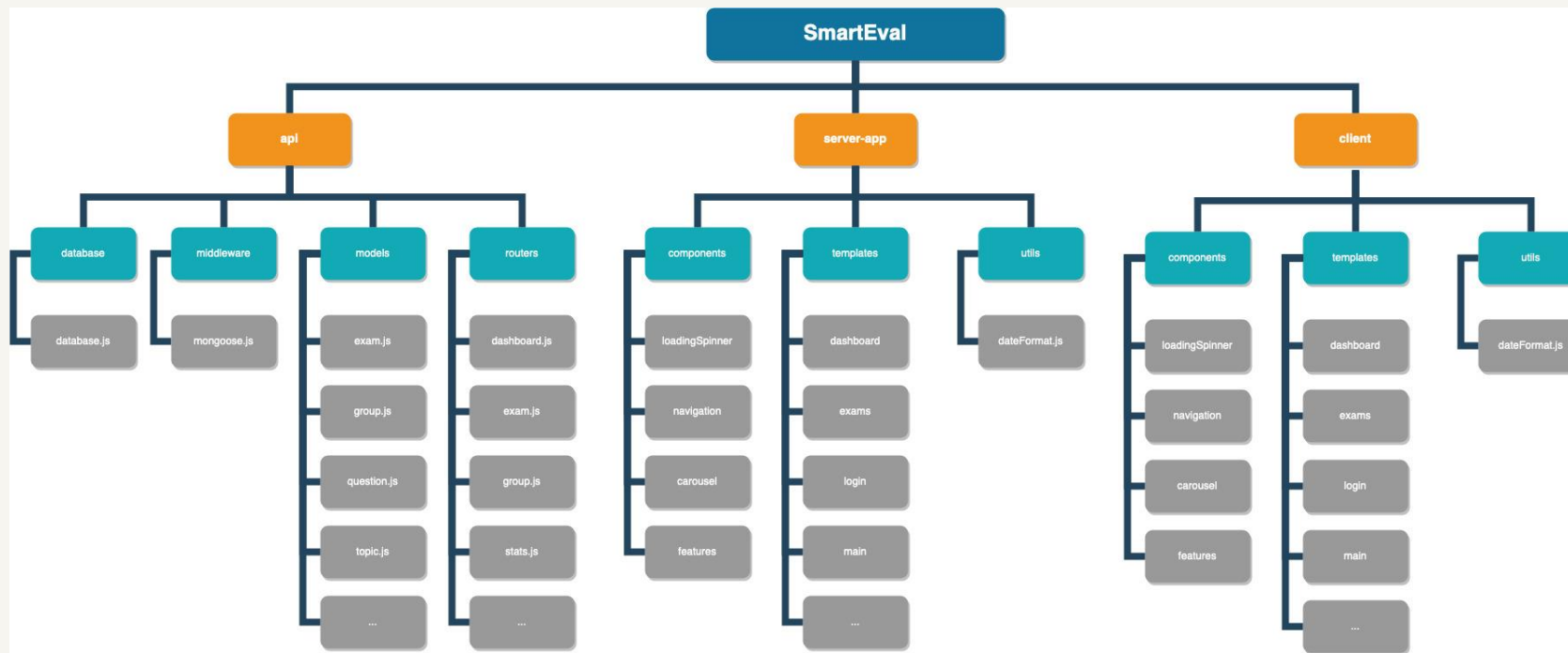
- HTML/CSS/JS
- React
 - Axios
- Bootstrap-react

Back-end

- Node.js
 - Mongoose
 - Express
- Electron
- MongoDB

Arquitectura

Estructura



Arquitectura

API

Autenticació		
Mètode	Ruta	Descripció
POST	/api/users/login	Mètode per a autenticar l'usuari
POST	/api/users/logout	Mètode per a tancar la sessió de l'usuari
POST	/api/users	Mètode per a crear un usuari nou en el sistema

Exàmens		
Mètode	Ruta	Descripció
POST	/api/exams/admin	Mètode que afegeix l'examen nou que ha creat un administrador.
GET	/api/exams/admin	Mètode que retorna tots els exàmens que ha creat un administrador.
GET	/api/exams/user	Mètode que retorna la llista sencera d'exàmens d'un usuari.
GET	/api/exams/admin/:id	Mètode que retorna totes les dades d'un examen concret de l'usuari.
PATCH	/api/exams/admin/:id	Mètode per a actualitzar qualsevol examen per part de l'administrador.
DELETE	/api/exams/admin/:id	Mètode per a eliminar un examen específic creat per l'administrador.

Arquitectura

API

The screenshot displays the Postman API client interface. On the left, a sidebar shows the workspace structure under 'My Workspace', including 'Collections', 'Assets', 'APIs', 'SmartEval', 'Environments', 'Mock Servers', 'Monitors', and 'History'. The 'SmartEval' collection is expanded to show a folder named 'Exams' containing several endpoints: 'GET Get exams', 'POST Create exam', 'GET Get Exam', 'GET Get latest', 'GET User - Get exams', 'POST Resolve exam', and 'GET Get resolvedExams'. The 'GET Get resolvedExams' endpoint is selected and its details are shown in the main editor.

The main editor shows the request configuration for 'GET resolvedExams' in the 'SmartEval / Exams' collection. The request method is 'GET' and the URL is `{{url}}/solved-exam/all/60a6b47b5729052121ee9c5b`. The 'Params' tab is active, showing a table for 'Query Params'.

KEY	VALUE	DESCRIPTION	⋮	Bulk Edit
Key	Value	Description		

Below the table, the 'Response' section is visible, showing a placeholder with a rocket and astronaut icon and the text 'Hit Send to get a response'.

Demo



Conclusions

Valoracions

Positiu

- Objectius principals
- Producte complet
- Portable a diferents SO

Negatiu

- Manca de temps
- Objectius secundaris
- Possibilitats de millora estètica

Conclusions

Futures línies de treball

- Supervisió del client
- Implementació d'Analytics
- Millora gràfica de l'aplicació
- Ampliació per a afegir un superusuari

Gràcies

