

Technical Skill evaluation

READ ALL THE PAGES CAREFULLY AND ALL THE QUESTIONS, AFTER THAT SOLVE THEM USING YOUR CREATIVITY, SKILLS AND EXPERTISE.

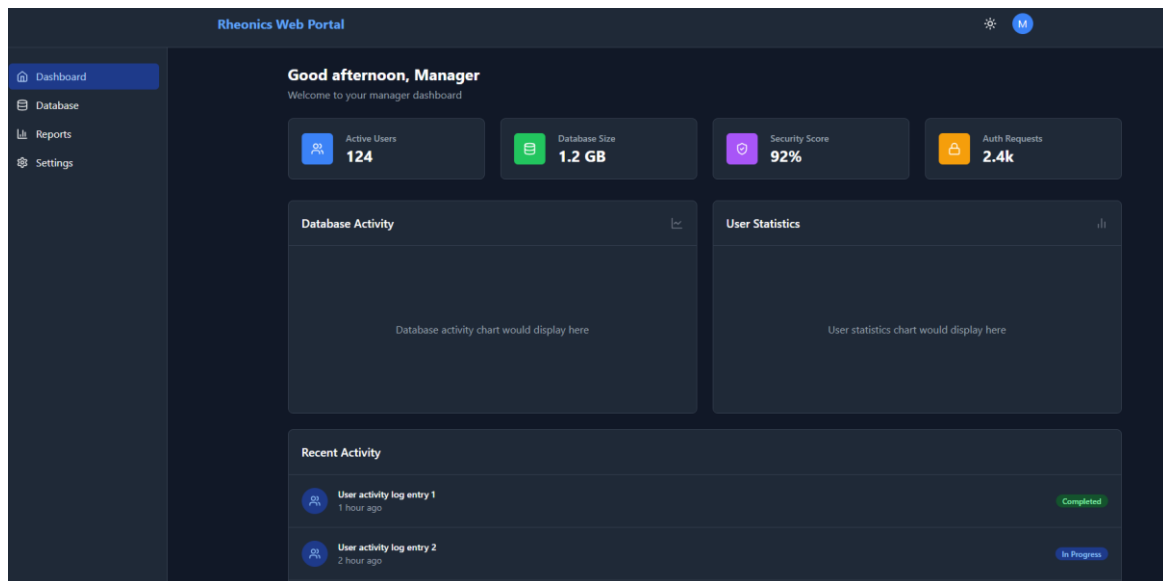
QUESTION 1:

Use the image below as a visual reference to create your own version of a portal homepage, enhancing it by adding any elements you consider necessary for a modern and usable interface. You may use any frontend tools, frameworks, or libraries of your choice.

Include a language switch button in the UI that allows toggling between at least two languages. The button does not need to have functional language switching implemented—just the UI element is sufficient for this task.

Delivery:

- A screenshot or image of your final version of the portal
- The source code files including all relevant content, structure, and styling
- Be prepared to explain your solution



QUESTION 2:

Using the portal homepage that you have created in Question 1, add a submenu in the left sidebar called "Upload file". When this option is selected, the main content area should be hidden and replaced by a button called "Upload" that allows uploading a document from the disk/local memory.

Once the file is uploaded:

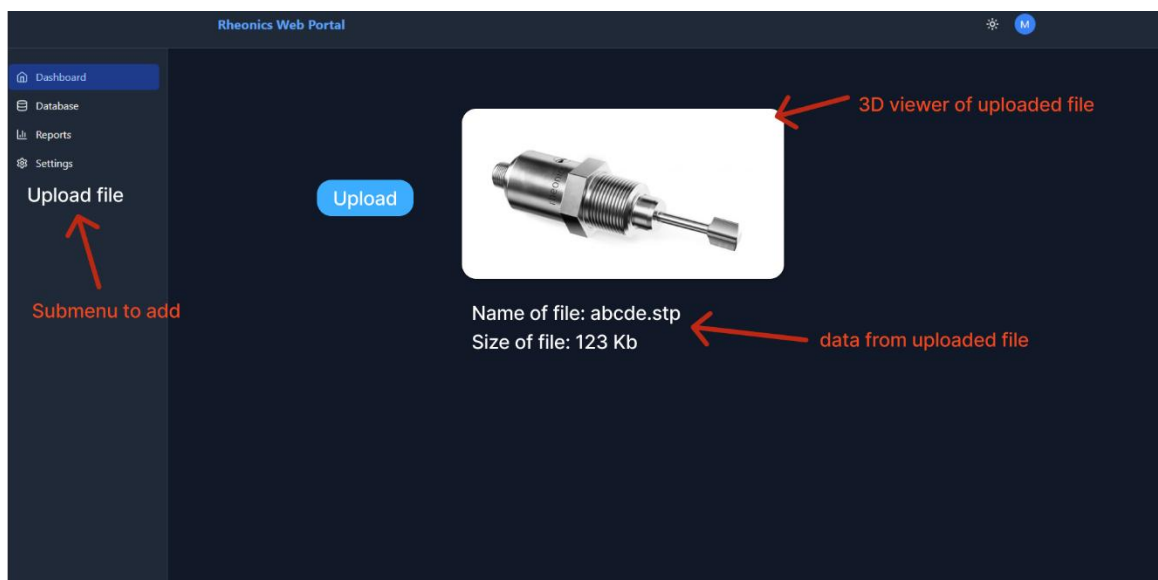
- Display the data showing the details of the attached file, such as file name, size, and any data possible to read.
- Additionally, the screen should show a simple preview of the 3D model information.

You will be provided with a .stp (STEP) file, which is a 3D object to be used in this test.

You can follow the image below as a reference but you can modify or improve it as you like.

Delivery:

- A video showing the action.
- The source code files of the backend.
- Be prepared to explain your solution.



QUESTION 3:

Create a GitHub repository that contains your full solution for Questions 1, and 2.

Delivery:

- Link to your public or unlisted GitHub repository.

QUESTION 4:

Create a connection to the LinkedIn API that allows posting a text along with either an article or an image. Demonstrate that the code works by building a simple application to test the integration or using an API testing platform such as Postman or a similar tool.

The final result should be a successful post on LinkedIn using the API with the text **"Welcome to my API connection, Rheonics Team"** and the Rheonics logo or the Rheonics website link included in the post.

Delivery:

- A video showing the execution of the application and the resulting LinkedIn post
- A source code in a readable file format such as .txt, .py, .cs, or similar.
- Be prepared to explain your solution

QUESTION 5:

Your company's WordPress website has been reported to load slowly, impacting user experience and SEO rankings. Explain your approach to analyze and improve the site's loading speed and overall performance. The answer should cover:

- Tools and methods you would use to diagnose performance bottlenecks.
- Specific optimizations you would apply to improve speed, such as image optimization, caching strategies, minimizing scripts, or database improvements.
- How you would implement caching solutions or use a CDN.

Delivery:

- A .txt describing your troubleshooting steps and optimizations, maybe providing code snippets or configuration examples for any caching or optimization techniques you recommend.
- Include any sources or references you consulted if you searched for information online.
- Be prepared to explain the solution

QUESTION 6:

After finalize all the previous questions, let us know the following:

- Give us a small explanation about why you selected each framework, language, etc. to complete the previous tasks.
- What alternatives did you consider and why didn't you use them?

Disclaimer: the using of sources, websites like Stack flow or AI are allowed as long it's documented.

References:

1. <https://support.rheonics.com/en/support/home>
2. <https://rheonics.com/>
3. <https://rheonics.com/media-library/>