SIENAimaging

Frontend Developer Position
Second session TEST

Image display and control

The following assignment aims to evaluate the skills and knowledge of the candidate in regards to software development, specifically in web frontend.

Business Requirements

The candidate is tasked with the development of a simple web application, consisting of one main page. It can be static or dynamic, and it should be responsive.
In order to consider a submission valid it should include the following:
- Markdown formatted readme: general introduction to the project and instructions on how to execute the code.
- Documentation: this should contain a section regarding the logic used in the project (which choices were taken and why).
- Source code and any related files.

If, for any reason, one or more of the objectives listed below is not reached, the candidate should write a proposal on how to solve the problem. This can be pseudo code or plain text, depending on the scope.

Time limit

The candidate should complete the test within 3 days of receiving this document (deadline Monday, January 23 at 6pm).

Technical Requirements

The project should be contained in a single repo.
There are no restrictions on frameworks or languages, but php and javascript are preferred.
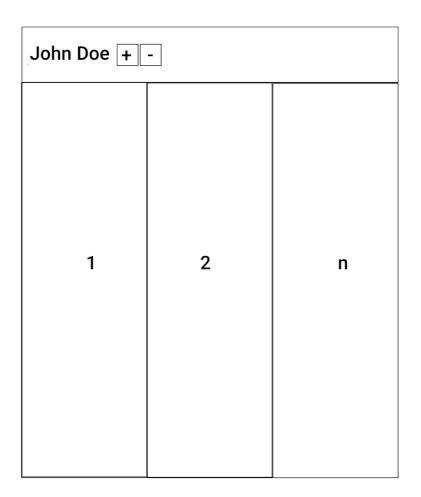There is no need for an authentication system.

UI

The page should be divided in two sections: a top bar with size 5% of the available screen, and a main "body" part occupying the remaining space.
The top bar should display the name of the candidate, alongside two buttons (namely a + and a - sign).
The main body should contain the functionalities listed below.

John Doe + -		
1	2	n

UX

The default behavior of the main body part should be to display nothing.

Upon clicking on the + sign in the bar above a component should fill a proportionate amount of the available space in the body.

That is, starting from nothing, one component should fill the entire body.

At a second click there should be two components occupying ½ of the body each; with the third click the space should display three components occupying ⅓ of the space each and so on.

Clicking on the - button will remove the right-most component from the body, and the remaining components should fill all the available space once again, following the same ratio as above.

Component

The single entity named *component* refers to the "frame", inside of which there should be the following two items:

- The image viewer
- The slider

When instantiated, each component should be empty, without images.

The user should be prompted to choose, through a modal or other method, a folder on the device.

The component should then scan the selected folder for any images, and create a slideshow.

The slideshow should not be automated, but it should be controlled by the slider at the top.

Moving the slider to the right (or left, depending on the current position) should change the image displayed in the slideshow.

Only one image should be displayed at a time per each component.

That is, two components should be able to display two different images at the same time, one per component.

An example is given below:

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Bonus

Provide a way to organize the components in a matrix, allowing the user to create components stacked vertically as well as horizontally.
Provide a method to zoom in and out each image (that is, independently per each component).

Delivery

The candidate should deliver the project as a git repo, ideally using a git-based approach during the development.
The repository can be uploaded on Github, Gitlab, or any other public facing git server.
Once completed, kindly send an email to job@sienaimaging.it with the link to the repository and any further material necessary for the evaluation.

For any question contact: job@sienaimaging.it