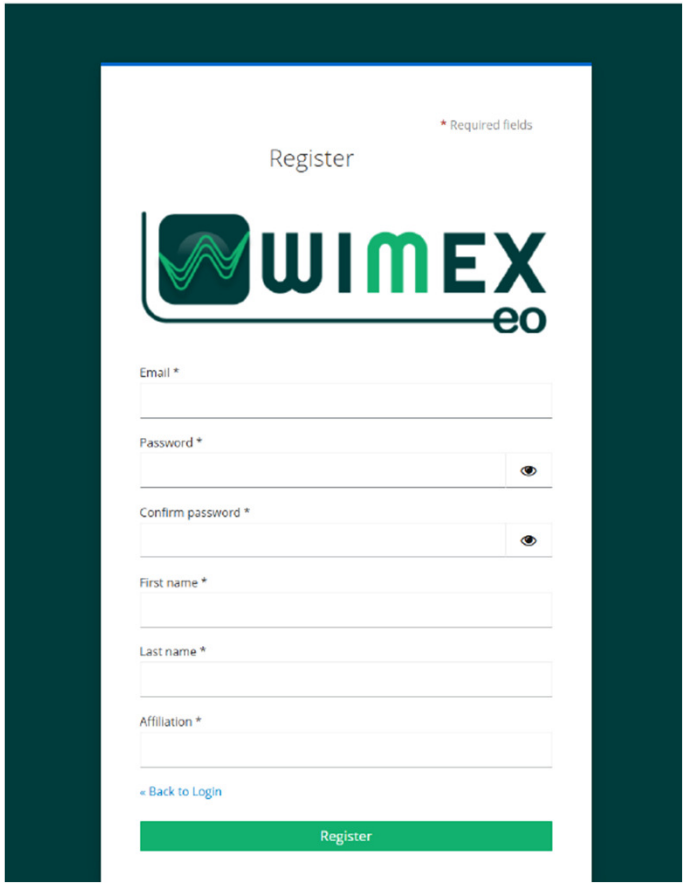
STEPS TO REGISTER A NEW MODEL

- The owner of the model creates an account on the WIMEX website https://wimex-webui.earthconsole.eu/ and then login

- The owner of the model creates the request for a new model registration on the WIMEX website https://wimex-webui.earthconsole.eu/request_registration/ providing all the necessary information

- Once the request is accepted by ESA, the WIMEX administrator creates on GitLab (https://gitlab.earthconsole.eu/) a new project dedicated to the new model

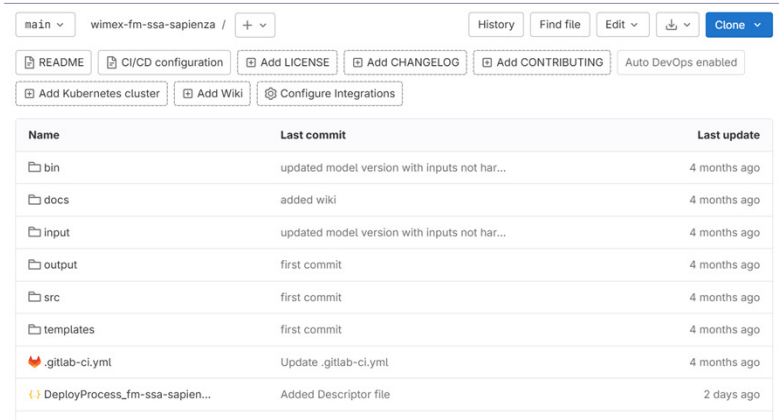


STEPS TO REGISTER A NEW MODEL

- The owner of the model upload on the model repository the code, the list of requirements, input and output examples, model documents and at least the Dokerfile. He/she can contribute to the creation of the Descriptor file of the model providing information on the input and output parameters of the model.

  NOTE: The uploaded code shall follow some basic guidelines:

  - To be executable in batch mode (not interactive mode such to require the user to enter inputs)
  - To have input and output path as input/variable parameters
  - To be compiled on a Linux machine, if written in MATLAB



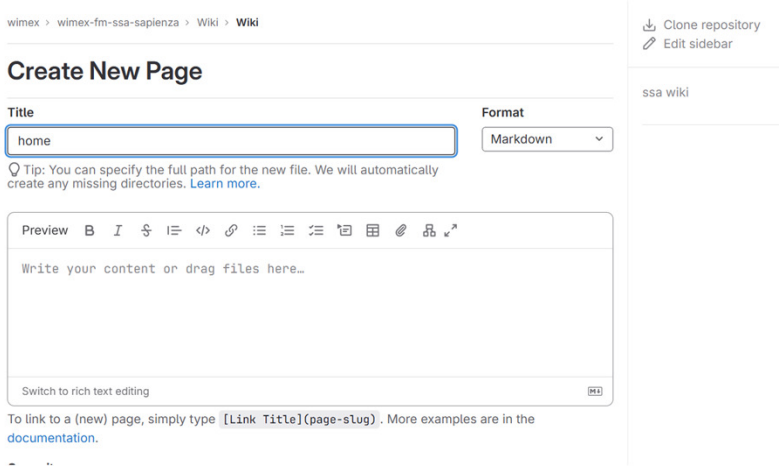
STEPS TO REGISTER A NEW MODEL

- To be organized in folders predefined and common to all the WIMEX models
- To be uploaded with a Dokerfile
- To be tested previously locally as docker container

❑ The owner of the model creates one or more WIKI pages with relevant information about the model

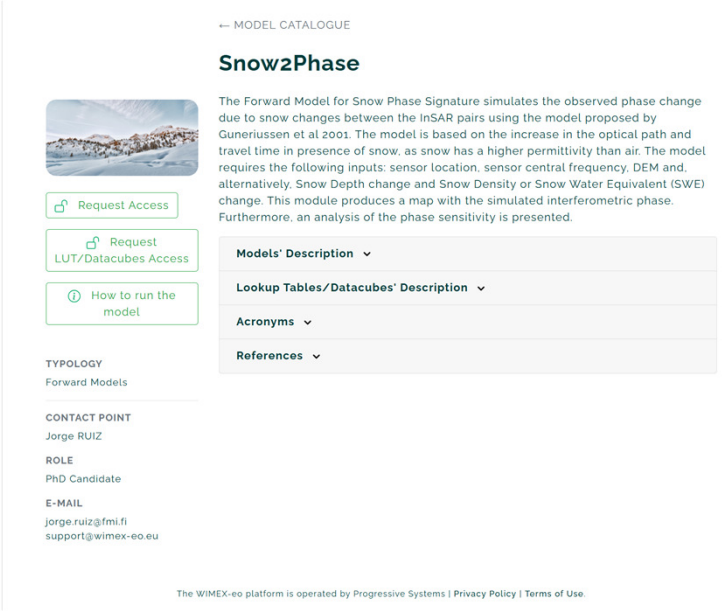
❑ The administrator upload on the repository a file with basic instructions that creates automatically a Docker image every time a major release of the model will be uploaded

❑ The administrator creates the Descriptor file of the model



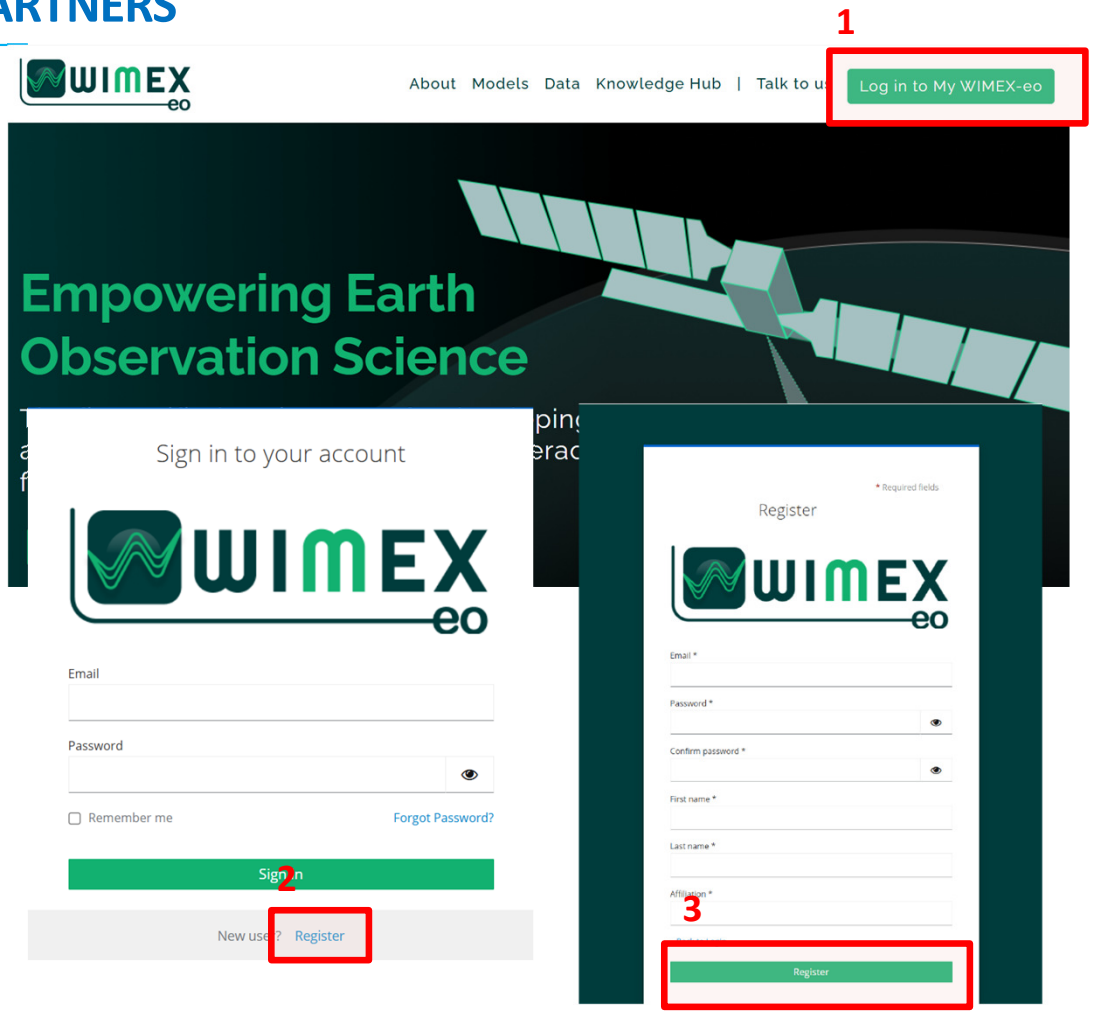
STEPS TO REGISTER A NEW MODEL

- ❑ The administrator register the model and tests it on the Framework using the inputs and outputs provided by the owner of the model
- ❑ The owner of the model validates the outputs
- ❑ The administrator creates a page on the website dedicated to the model
- ❑ The owner access the page dedicated to the model and execute the model



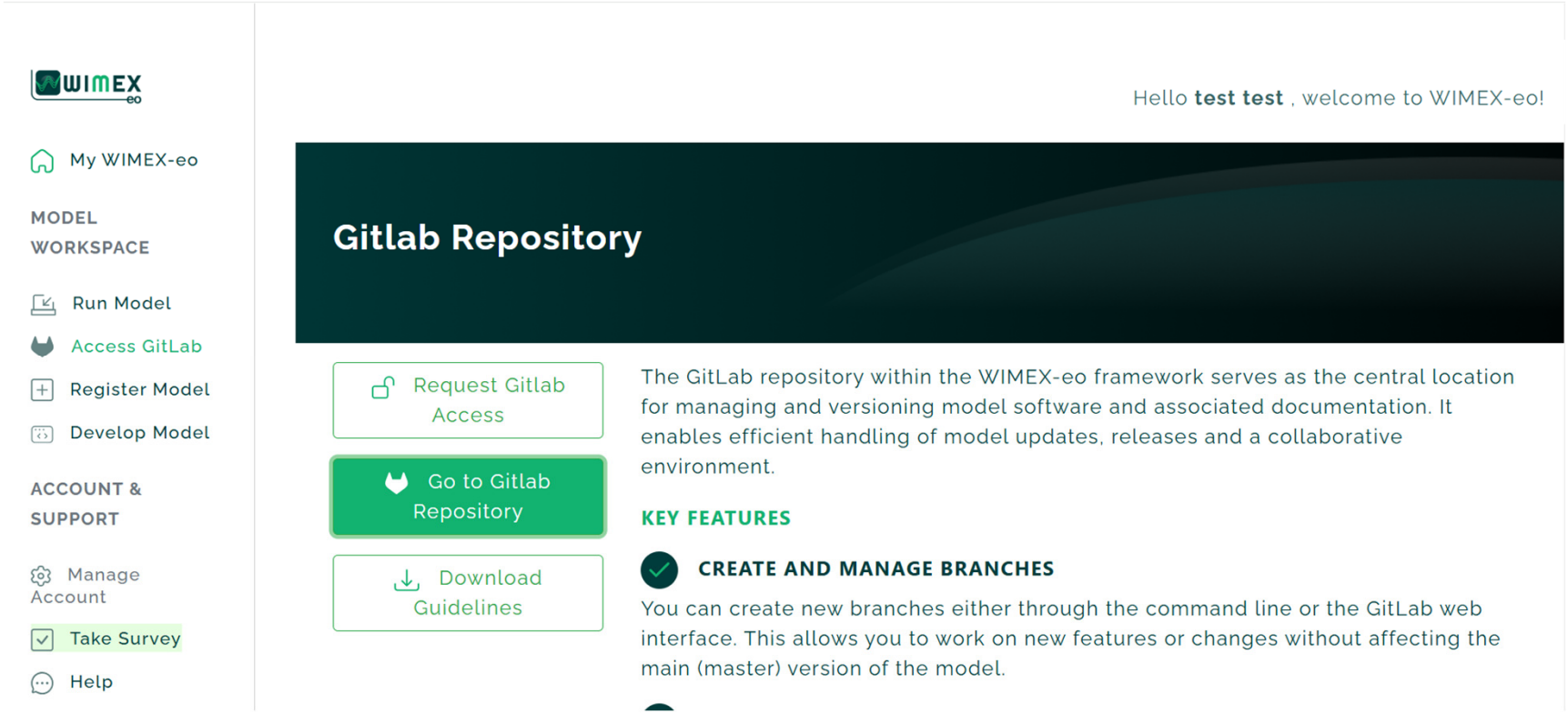
EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

- The owner of the model creates an account on the WIMEX website https://wimex-webui.earthconsole.eu/ clicking on 'Login to My WIMEX-eo and then 'Register'.
  The owner will receive an email to verify his/her email address.
  Clicking on the link inside the email, he/she will be redirected to the WIMEX website.



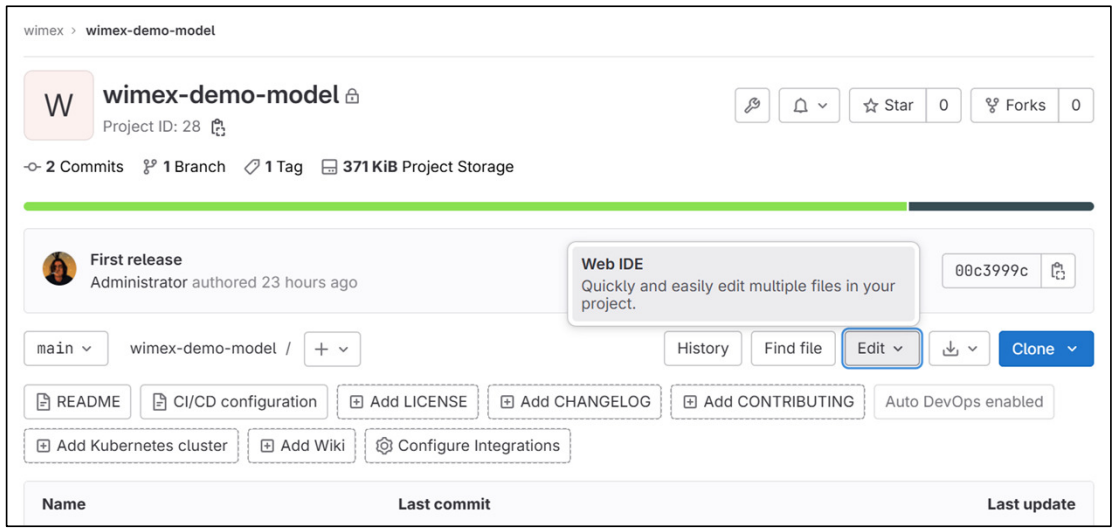
EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

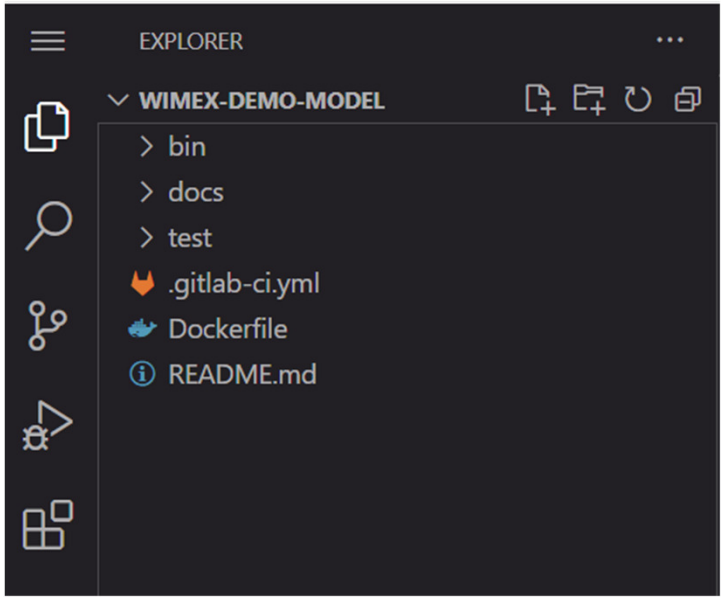
- ❑ The owner of the model enters in the GitLab Repository



EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

- The owner of the model enters in the WEB IDE and uploads on the model repository the code, the list of requirements, input and output examples, model documents and at least the Dokerfile.
  He/she can contribute to the creation of the Descriptor file of the model providing information on the input and output parameters of the model.





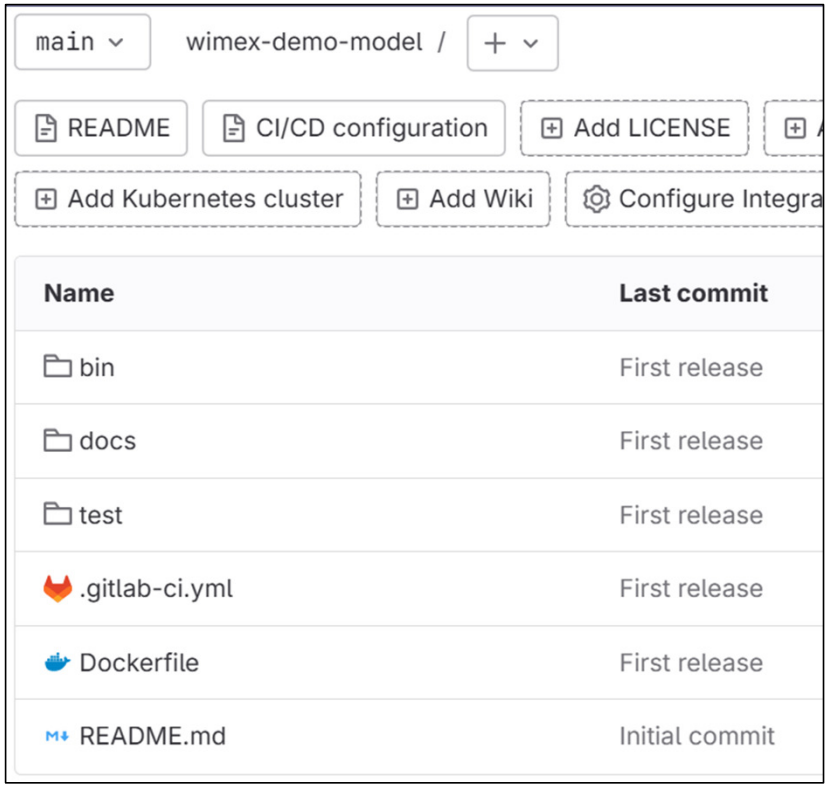
EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

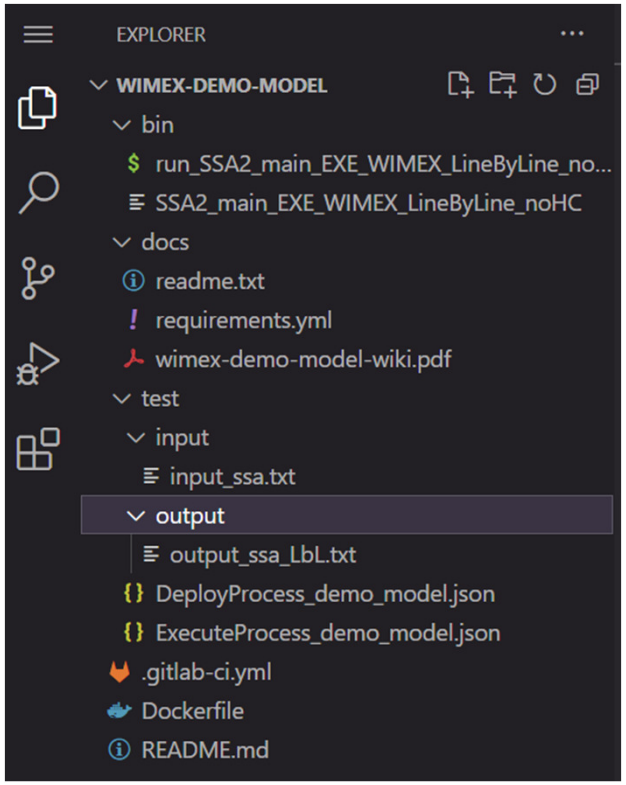
❑ **NOTE: The uploaded code shall follow some basic guidelines:**

- To be executable in batch mode (not interactive mode such to require the user to enter inputs)
- To have input and output path as input/variable parameters
- To be compiled on a Linux machine, if written in MATLAB
- To be organized in folders predefined and common to all the WIMEX models
- To be uploaded with a Dokerfile
- To be tested previously locally as docker container

EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

❑ Example of folders structure





❑ NOTE: normally it is expected to have also the 'src' folder with the source code not compiled

EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

❑ Example of Dockefile for a model written in MATLAB

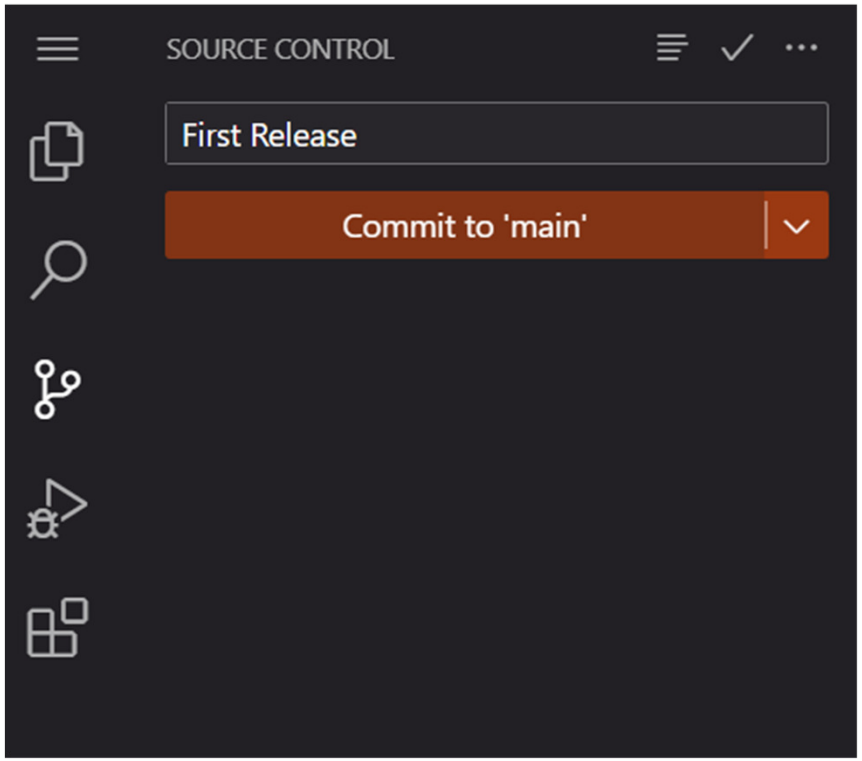
Dockerfile 231 B

Edit | Replace | Delete

```
1  FROM containers.mathworks.com/matlab-runtime:r2023b
2  # RUN mkdir -p /app
3  WORKDIR /app
4  COPY . /app
5
6  ENV AGREE_TO_MATLAB_RUNTIME_LICENSE=yes
7
8  ENTRYPOINT ["/app/run_SSA2_main_EXE_WIMEX_LineByLine_noHC.sh", "/opt/matlabruntime/R2023b"]
9
```

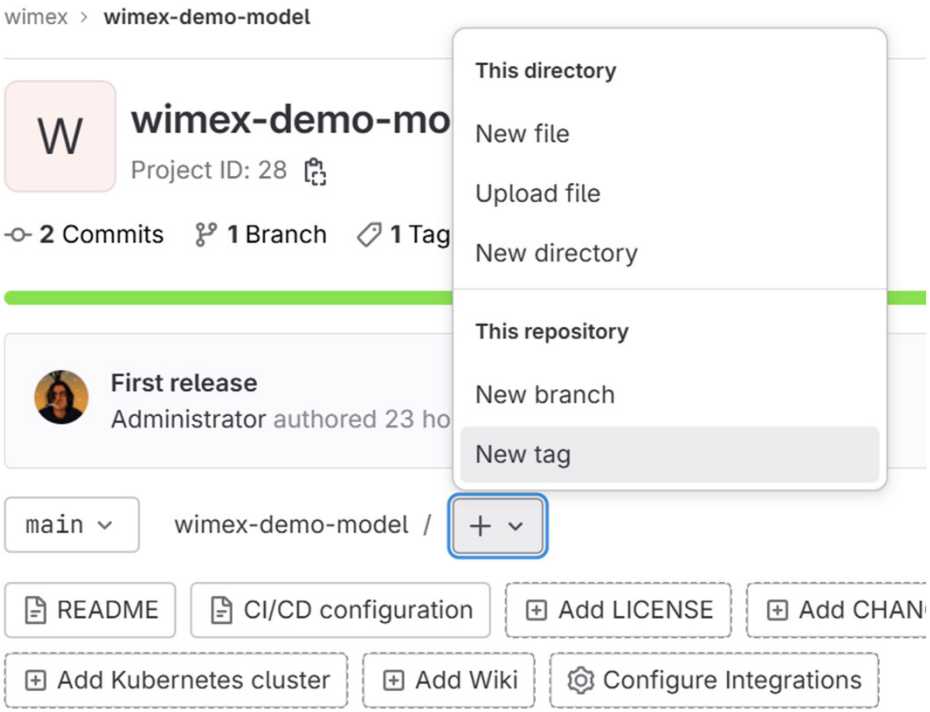
EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

- The owner commits the changes in the repository inserting a message like ‘First release’.



EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

❑ The owner creates a tag for the commit. For example ‘1.0.0’



❑ This will trigger the automatic creation of the Docker image into the Container Registry

EXPECTED ACTIONS FROM THE SCIENTIFIC PARTNERS

- ❑ The owner of the model creates one or more WIKI pages with relevant information about the model