Overview, Tools and frameworks

- The platform was developed using Symfony framework based on php language.
- The platform is a web oriented app and uses the conventional languages (HTML, JS, Bootstrap …)
- The platform can system call other software if simulations were wanted to be centered
- The code uses MVC architecture. The platform is destined to be used by a team

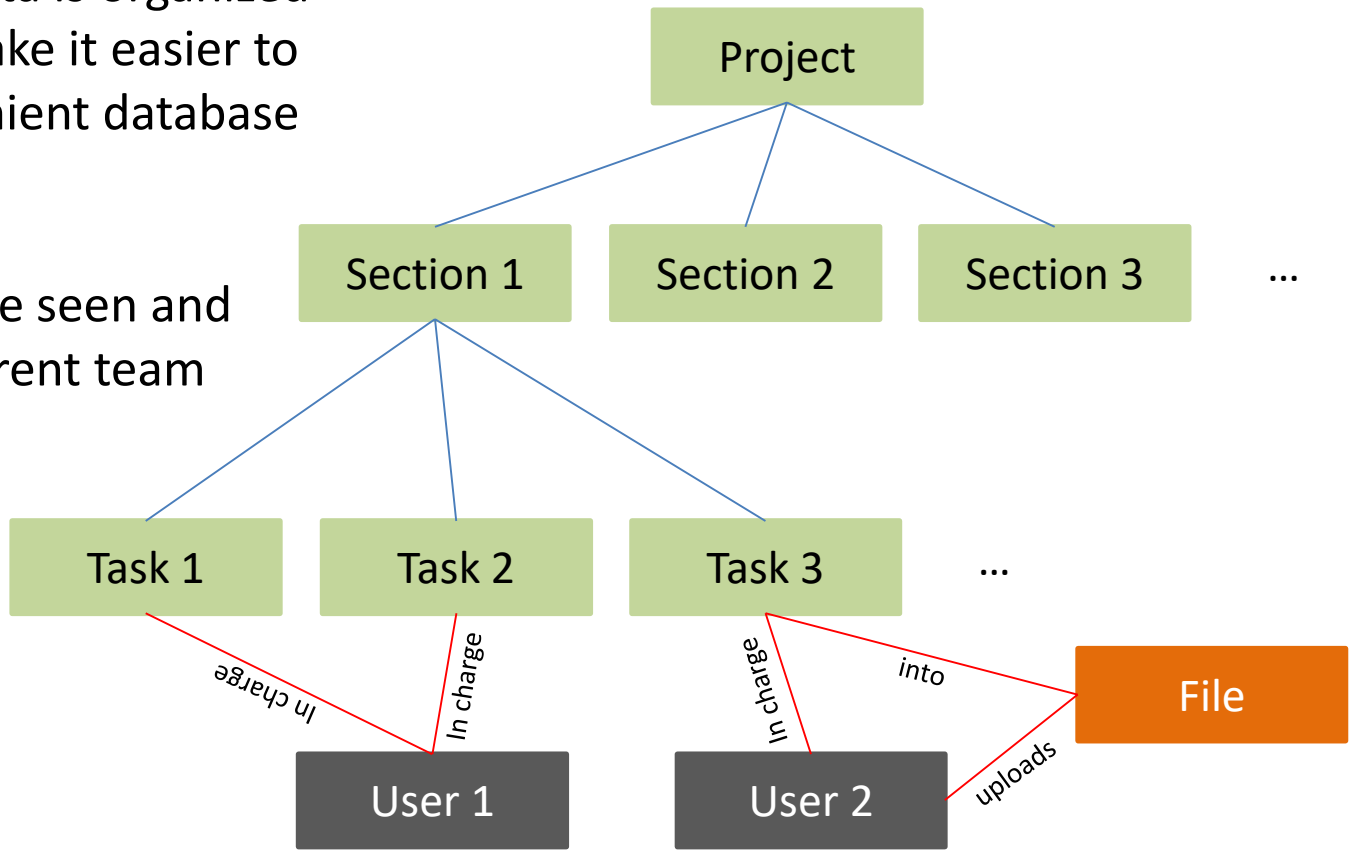
framework

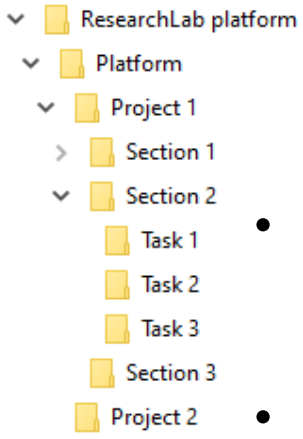
Script languages

If tools were added

Model structure

- The structure of data is organized in tree shape to make it easier to browse and convenient database management
- Every project can be seen and modified by a different team





- The files are saved in the hard drive – structure and names are saved in a database
- If a file is uploaded, a subfolder is automatically created

User and authentication

- A user can be created by everyone quickly
- New users will automatically have “guest” role
- The platform users have different roles according to different privileges

Homepage

Login button

Add user button

Cumulative privileges

Guest

- Can use tools
- Can browse the content of an ongoing project if added into the project members list

Student

- Can be added as a person in charge of a given task
- Can upload files into his tasks

PhD

- Can create new tasks

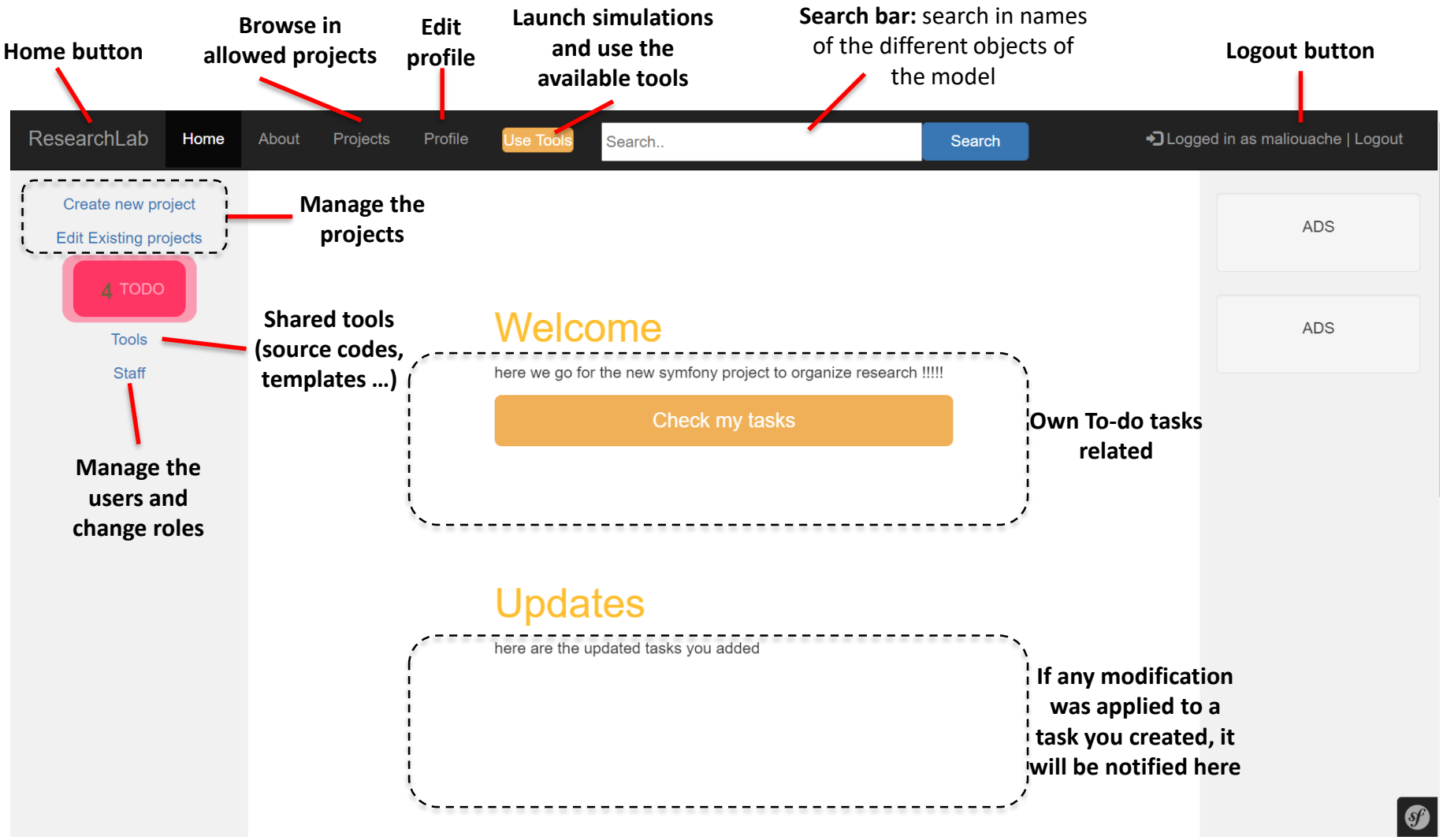
Researcher

- Can create new sections
- Can validate a finished task

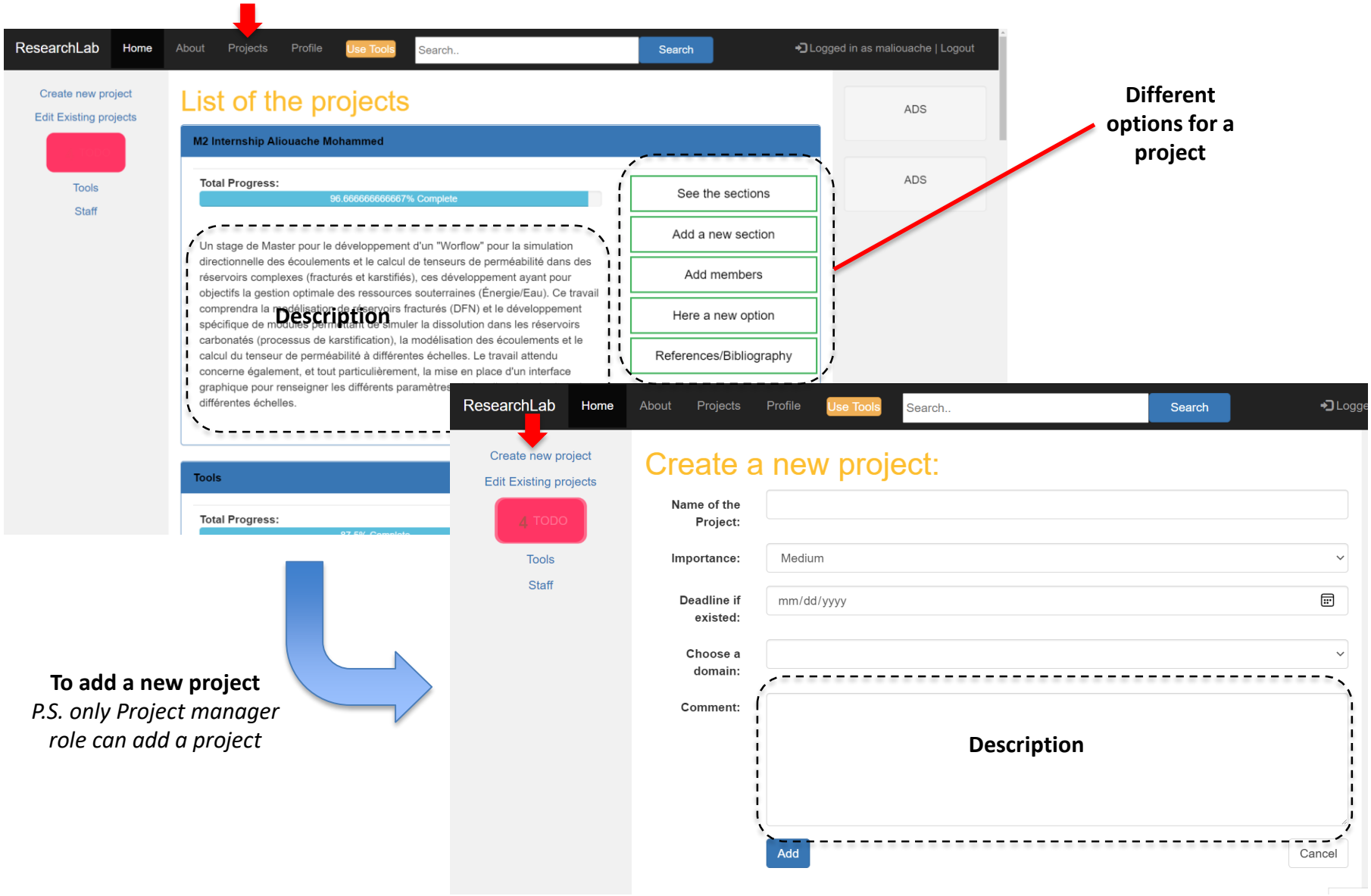
Admin/Manager

- Can create new projects
- Can modify the role of the users

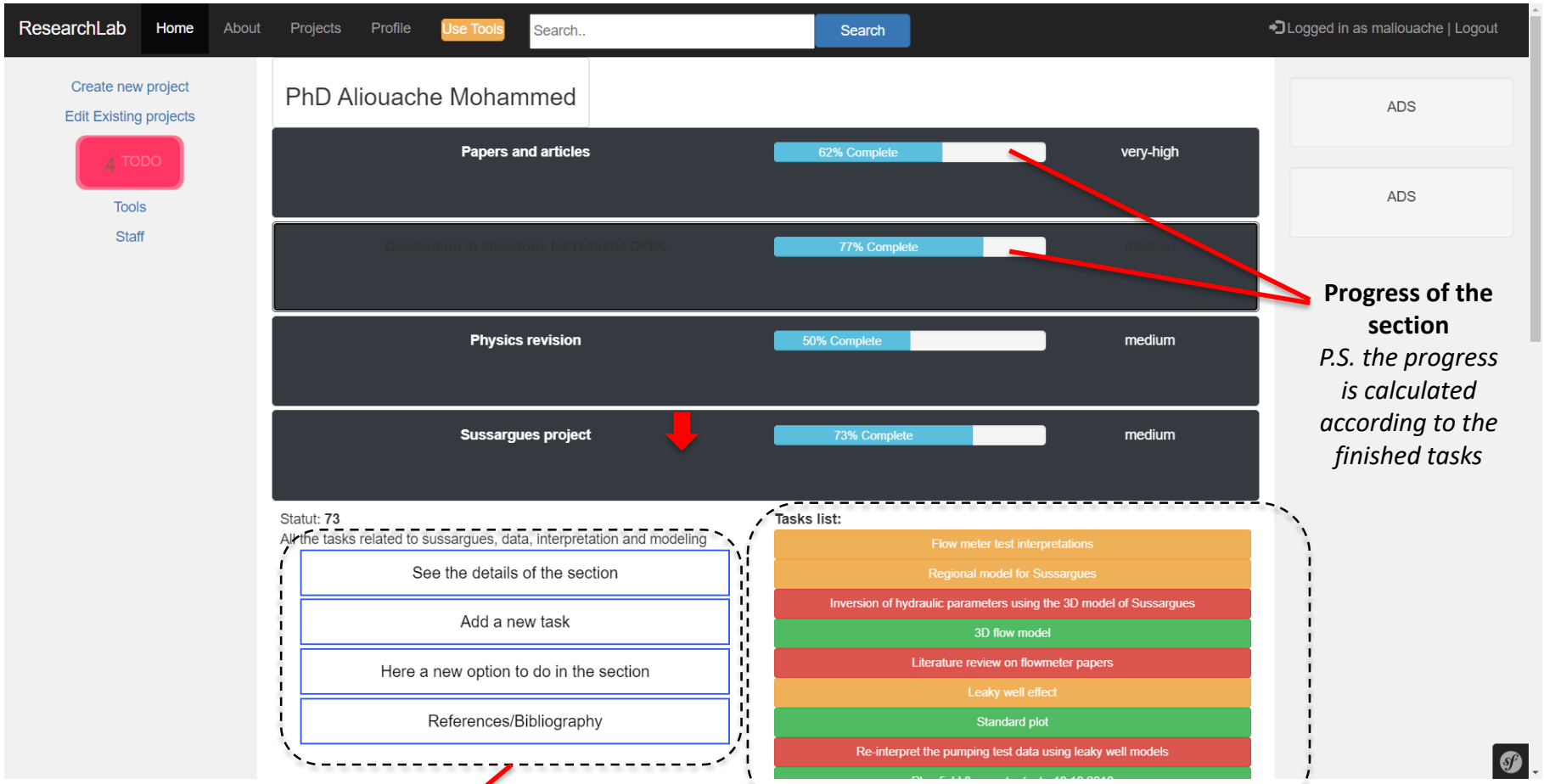
Dashboard


Home button
Browse in allowed projects
Edit profile
Launch simulations and use the available tools
Search bar: search in names of the different objects of the model
Logout button
ResearchLab
Home
About
Projects
Profile
Use Tools
Search..
Search
Logged in as maliouache | Logout
Create new project
Edit Existing projects
Manage the projects
4 TODO
Tools
Staff
Shared tools (source codes, templates ...)
Manage the users and change roles
Welcome
here we go for the new symfony project to organize research !!!!!
Check my tasks
Own To-do tasks related
Updates
here are the updated tasks you added
If any modification was applied to a task you created, it will be notified here
ADS
ADS

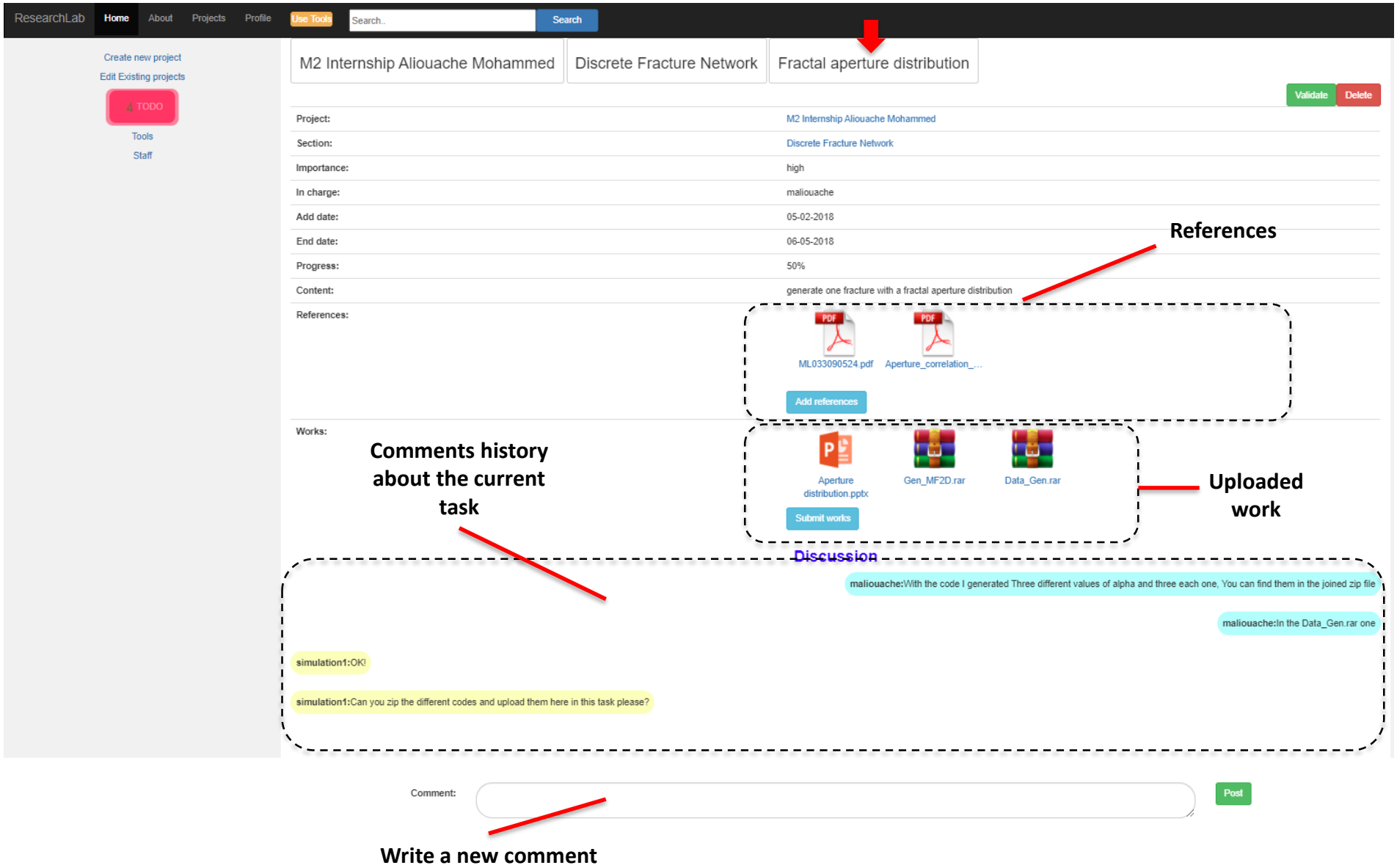
Projects


ResearchLab
Home
About
Projects
Profile
Use Tools
Search..
Search
Logged in as maliouache | Logout
Create new project
Edit Existing projects
Tools
Staff
List of the projects
M2 Internship Aliouache Mohammed
Total Progress:
96.666666666667% Complete
Un stage de Master pour le développement d'un "Worflow" pour la simulation directionnelle des écoulements et le calcul de tenseurs de perméabilité dans des réservoirs complexes (fracturés et karstifiés), ces développement ayant pour objectifs la gestion optimale des ressources souterraines (Énergie/Eau). Ce travail comprendra la modélisation de réservoirs fracturés (DFN) et le développement spécifique de modules permettant de simuler la dissolution dans les réservoirs carbonatés (processus de karstification), la modélisation des écoulements et le calcul du tenseur de perméabilité à différentes échelles. Le travail attendu concerne également, et tout particulièrement, la mise en place d'un interface graphique pour renseigner les différents paramètres différentes échelles.
Description
See the sections
Add a new section
Add members
Here a new option
References/Bibliography
Different options for a project
ADS
ADS
Tools
Total Progress:
To add a new project
P.S. only Project manager role can add a project
ResearchLab
Home
About
Projects
Profile
Use Tools
Search..
Search
Create new project
Edit Existing projects
4 TODO
Tools
Staff
Create a new project:
Name of the Project:
Importance:
Medium
Deadline if existed:
mm/dd/yyyy
Choose a domain:
Comment:
Description
Add
Cancel

Sections

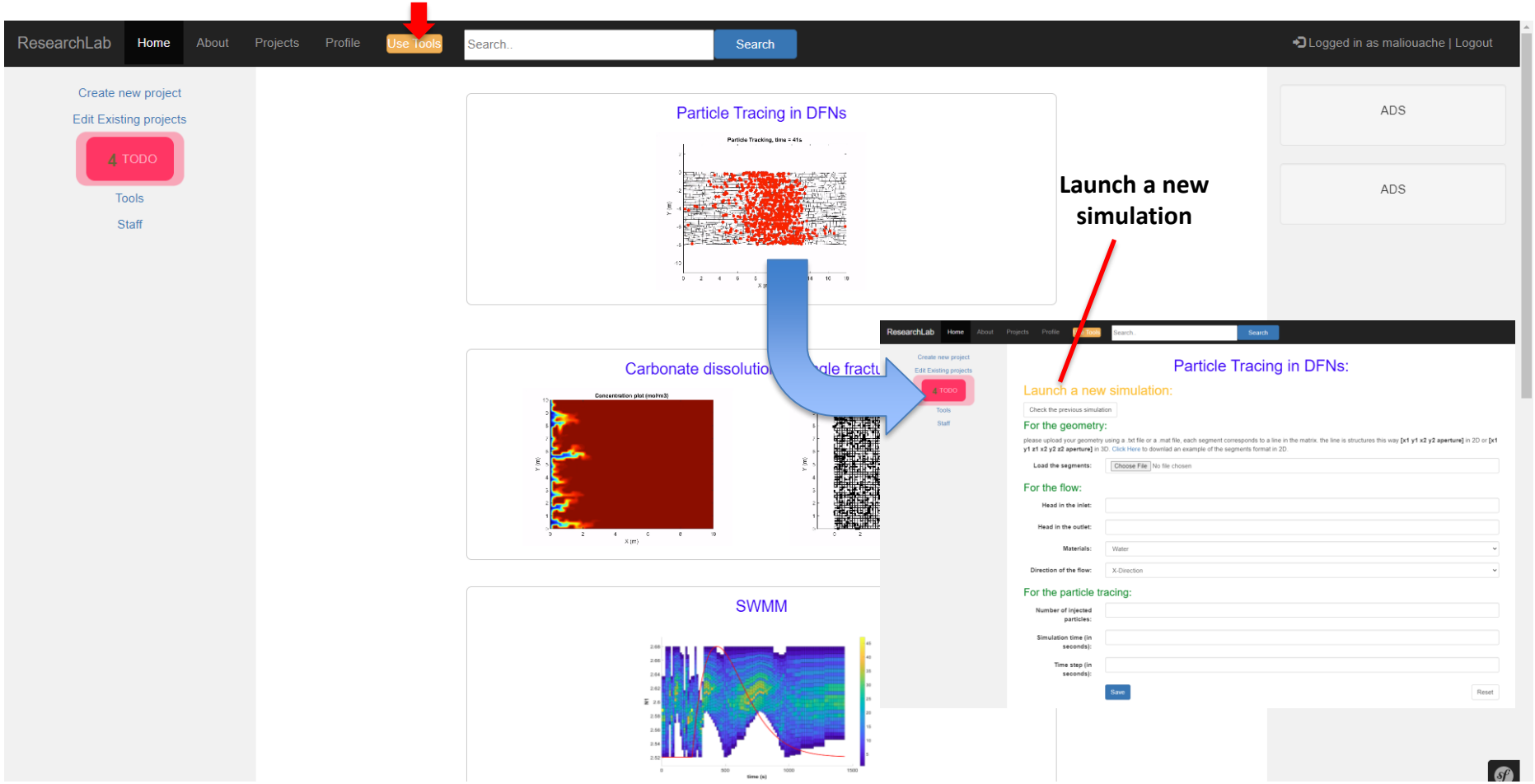

ResearchLab
Home
About
Projects
Profile
Use Tools
Search..
Search
Logged in as maliouache | Logout
Create new project
Edit Existing projects
4 TODO
Tools
Staff
PhD Aliouache Mohammed
ADS
ADS
Papers and articles
62% Complete
very-high
77% Complete
Physics revision
50% Complete
medium
Sussargues project
73% Complete
medium
Progress of the section
P.S. the progress is calculated according to the finished tasks
Statut: 73
All the tasks related to sussargues, data, interpretation and modeling
See the details of the section
Add a new task
Here a new option to do in the section
References/Bibliography
Tasks list:
Flow meter test interpretations
Regional model for Sussargues
Inversion of hydraulic parameters using the 3D model of Sussargues
3D flow model
Literature review on flowmeter papers
Leaky well effect
Standard plot
Re-interpret the pumping test data using leaky well models
Available options for a section
Tasks of the section
Green: Done
Orange: at least a file or a comment is added to the task
Red: not started yet

Tasks


ResearchLab
Home
About
Projects
Profile
Use Tools
Search..
Search
Create new project
Edit Existing projects
4 TODO
Tools
Staff
M2 Internship Aliouache Mohammed
Discrete Fracture Network
Fractal aperture distribution
Validate
Delete
Project:
M2 Internship Aliouache Mohammed
Section:
Discrete Fracture Network
Importance:
high
In charge:
maliouache
Add date:
05-02-2018
End date:
06-05-2018
Progress:
50%
Content:
generate one fracture with a fractal aperture distribution
References:
ML033090524.pdf
Aperture_correlation_...
Add references
References
Works:
Aperture distribution.pptx
Gen_MF2D.rar
Data_Gen.rar
Submit works
Uploaded work
Comments history about the current task
Discussion
maliouache:With the code I generated Three different values of alpha and three each one, You can find them in the joined zip file
maliouache:In the Data_Gen.rar one
simulation1:OK!
simulation1:Can you zip the different codes and upload them here in this task please?
Comment:
Post
Write a new comment

Usable tools

- Simulation launcher was scripted in order to be able to launch simulations directly from the platform
- The platform will system call the needed software to run the simulation



Once the simulation is finished, a zip file with all the outputs will be available to download