DMP du projet "CEToolbox Software Management Plan"

Plan de gestion de données créé à l'aide de DMP OPIDoR, basé sur le modèle "Research Software Management Plan template (PRESOFT project)" fourni par PRESOFT projet.

Plan Details

Plan title	DMP du projet "CEToolbox Software Management Plan"
Language	fra
Creation date	2021-11-09
Last modification date	2021-11-09
Identifier	

Project Details

Project title	CEToolbox Software Management Plan
Abstract	

Research outputs :

1. CEToolbox Software Management Plan (Logiciel)

Contributors

Name	Affiliation	Roles
Jérôme Pansanel - https://orcid.org/0000-0002-7067-5009		• Coordinateur du projet • Personne contact pour les données • Responsable du plan

DMP du projet "CEToolbox Software Management Plan"

1. Metadata

Software name - *If you need to choose a name, avoid the name of a brand and other software names*

CEToolbox

Short description of the software - *A short sentence describing your software*

The CEToolbox software is an Android application for computing Capillary Electrophoresis parameters. It provides several tabs, each of them providing a simple way to compute specific data, like injection information, viscosity, conductivity or electroosmotic mobility.

Software web page or website

https://cetoolbox.github.io/

Link to source code or package

https://github.com/cetoolbox/

Contact *(email adress)*

yannis.francois@unistra.fr and jerome.pansanel@iphc.cnrs.fr

Research unit in charge of the software

The research units in charge of the software are the LSMIS and IPHC

Main developers and their affiliations

- Y. François (LSMIS)
- M. Biacchi (LSMIS)
- R. Gahoual (LSMIS)
- A. Vezin (LSMIS)
- J. Pansanel (IPHC)

Software version

Version 1.4.5

Date of the software version

2021-03-03

Licence

CE Toolbox is free software; it is licensed under the Apache License, Version 2.0.

Scientific discipline - ***For example according to the ERC https://erc.europa.eu/sites/default/files/document/file/ERC_Panel_structure_2018.pdf or to the EGI scientific classification: https://wiki.egi.eu/wiki/Scientific_Disciplines***

Physical and Analytical Chemical Sciences

Main functionalities - ***In the form of keywords***

Injection characteristic calculation ; Conductivity ; Flow rate; Mobility; Separation characteristic calculation; Viscosity.

Main technical characteristics - ***In the form of keywords***

Android Application; Java; Open Source software

Other keywords

Question sans réponse.

2.1 Software context: History

Preparatory material - ***Identify and date the preparatory material***

Question sans réponse.

Specifications (if any), conception model (UML or other), use cases... - *References and dates for the specifications, conception model...*

Question sans réponse.

Previous software versions - *Identify and date the previous versions*

Previous version of CEToolbox are available on this page: https://github.com/cetoolbox/cetoolbox/releases

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Components included in the software and external dependencies - *Identify and describe the different components that are part of the software: name, version, date, authors, website, licence...*

Question sans réponse.

New components to be included in the new version of the software - *Identify and describe the different components*

It is planned to modify the user interface to comply with recent UX design. It is also planned to release an iOS version of CEToolbox.

Roadmap (*Link*)

Question sans réponse.

Are there other software developments with similar functionalities? Which are the differences?

Question sans réponse.

Publications, data and other associated productions - ***For example: the team publications to explain the software design or to show the obtained scientific results by using the software***

François, Y.N., Biacchi, M., Gahoual, R., Vezin, A. and Pansanel, J. (2021), CEToolbox: Specialized calculator for capillary electrophoresis users as an android application. ELECTROPHORESIS, 42: 1431-1435. https://doi.org/10.1002/elps.202100036

Up to this date (to be given), estimation of the software's cost - ***Number of person/months for example***

Question sans réponse.

2.2 Software context: Project(s) related to the software

Project(s) related to the software

Question sans réponse.

2.3 Software context: Legal issues and distribution policy

Intellectual property - ***Identify authors, rightholders.***
In the framework of a project the intellectual property is part of the consortium agreement.

Question sans réponse.

Rightholders or copyright statement

CNRS and University of Strasbourg

Distribution policy - ***Constraints linked to the project (s), the partners and their organisms***

Question sans réponse.

Licence(s) - ***Beware of possible heritage and licence compatibility issues. Mention the licences of the documentation, of the web site...***

CEToolbox is licensed under the Apache License, Version 2.0

If the code is to be open, when will it be open? - ***To be validated with the possible partners and according to the constraints linked to the funding***

Question sans réponse.

Management of the intellectual property of external contributions - ***Rights' transfer agreement to be planned***

Question sans réponse.

Non disclosure or privacy clauses and sensitive data processing (if needed)

Question sans réponse.

3.1 Software features: Scientific goals

Objectives, expected results - ***Describe in a synthetic way the scientific goals and the expected results linked to the software***

Question sans réponse.

3.2 Software features: Usage and distribution objectives

Planned or considered lifespan

Question sans réponse.

Planned usage - ***What for (publications, teaching, production level usage, industry level usage)?***

Laboratory daily work and teaching. The software is TRL9.

Target public - ***For example: researchers, team, restricted distribution, collaboration, wide distribution...***

The software intends to be used by researchers and engineers who are doing capillary electrophoresis-based analysis.

Planned user support - ***Type of support, tools, resources, quality of service for the users. For example, user support, ticket system, a person in "best effort"...***

The support is provided through:

- a complete on-line documentation;
- a ticket system;
- a person in "best effort".

Distribution goals - ***The software is "for internal use only", the software will be published via an article, the software will be distributed widely...***

The software is widely distributed through two application stores :

- Google Play
- F-Droid

Collaboration community wished - ***If yes, which one?***

- Yes
- Yes

We are looking for developers or software testers.

Adequacy of the resources (development, maintenance...) to the distribution goals - ***Are the available resources suitable? (human, financial and material resources)***

Human resources are enough for the maintenance of the software, however additional competences would be welcome for specific developments.

Risk analysis - ***A risk analysis may be useful before launching an expensive development or an unwise distribution***

No risk analysis has been done so far.

Software preservation - ***What is the objective for the preservation and what is the solution used? - Please distinguish short term backup and long term archiving***

The source code is saved on several sites with version control system. Backup from stable versions are performed on the laboratory storage server. The code is also correctly indexed by the Software Heritage project.

3.3 Software features: Technical features

Used technologies

The software is developed in Java with Android Studio.

Dependencies - *OS, SDK, libraries, browser, external APIs...*

The software works with Android and requires the Android SDK.

Already existing components reuse - *Technical constraints*

Question sans réponse.

Documentation - *Give the documentation's url*

Equations used by the application are detailed on: https://cetoolbox.github.io/resources/cetoolbox-equations.pdf

Used norms and standards - *Example: ISO norm of the development language*

Question sans réponse.

4. Team organisation

Governance - *For example the organisation officially in charge of the software, a consortium...*

Question sans réponse.

Consortium agreement including governance, development and future of the software - *In the case of a shared development between several organisms - If the software is developed in the framework of a project, the consortium agreement must take it into account.*

Question sans réponse.

Team - *List the members of the team. Indicate for each person its status (employee /institution, internship, student, retired...) and their participation dates*

- Y. François (Université de Strasbourg)
- J. Pansanel (CNRS)
- M. Biacchi (Université de Strasbourg, former PhD student)
- R. Gahoual (Université de Strasbourg, former PhD student)
- A. Vezin (Université de Strasbourg, former student)

Organisation around the software - *Responsibilities of the different actors: development, training, support, distribution, translation... - Distinguish the different roles: leader, main developers, minor contributors, scientific contributors (no code writing), documentation writers...*

Question sans réponse.

Costs and funding distribution

Question sans réponse.

Type of development - *Collaborative or not (practical organisation of the collaboration). Note that the 5th section details the development organisation*

Question sans réponse.

Actions to be planned in case of a person's leave

Question sans réponse.

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5. Development organisation

Development team - *On one or several sites, depending on one or several institutions...*

Question sans réponse.

Development plan - *Roadmap including the new versions, functionalities planned and dates.*

Question sans réponse.

Development methods, used standards, tools and infrastructures (code repository) - *Example: tools for version management and collaborative development*

Question sans réponse.

Actor's responsibilities in the development

Question sans réponse.

Quality procedures - *For example, actions taken to foster the software maintainability, best practices applied, verification tests...*

Question sans réponse.

Security (taken into account in the development)

Question sans réponse.

Version delivery, bugs, tests and validation management - *Are there testing or other validation procedures? With which follow-up? Are they to be given to final users? How do you manage bugs?*

Question sans réponse.

Documentation production management (internal and for users, installation and requirements, use examples) - *Explain how the documentation is produced and updated for each version (responsibilities, organisation...)*

Question sans réponse.

Describe main planned evolutions - *For example: integration in other projects, software translations...*

Question sans réponse.

If external participations are expected and possible, which are the rules (validation of the contributions, contribution integration in the major versions, participation integration)? - *It is advisable to define accurately the rules before any external participation.*

Question sans réponse.

6. Distribution organisation

Reference repository - *For example: the link to the software version on SourceSup, Zenodo or Gitlab IN2P3*

https://github.com/cetoolbox/cetoolbox

Persistent identifier - *Indicate for example the DOI of your software*

https://doi.org/10.5281/zenodo.4019170

Citation form - *You can suggest to cite the publication that describes your software or the one that seems to be the most important.*

Otherwise you may propose for example: "author(s), software name, short description, version, date, url"

François, Y.; Pansanel, J. (2021), "CEToolbox", v1.4.5, Zenodo, http://doi.org/10.5281/zenodo.4643845

Links to articles or other research outputs external to the team and that use the software - *Important: to show that the software is used outside the development team or the original laboratories.*

Question sans réponse.

Referencing (announces, websites of the scientific community...)

Question sans réponse.

Communications - *Conferences, posters, flyers...*

Question sans réponse.

Publications in a software journal

Question sans réponse.

User support (such as offered to the users)

In case of issue, users are invited to open a ticket on:
https://github.com/cetoolbox/cetoolbox/issues

Usage indicators - *Number of downloads, number of exchanges with users...*

Question sans réponse.

7. SMP management

Person in charge of this SMP

Jérôme PANSANEL

Is the SMP required by a project funding, an agreement, contract or other?

No, it is not required.

Organisation to write and update the SMP and monitor actions and goals - *Is there a collaborative place for this SMP? Is it a text document? What is the update frequency or it is updated continuously? What type of events*

triggers an update? Who are the actors?

The current document has been created with the DMP OPIDoR service. Please don't forget to keep the successive versions in your local workspace.

Question sans réponse.

Distribution of this SMP

- Public
- Public

Links with the current project's Data Management Plan (if any) - *If yes, is there a reference model or important points to develop? Is this SMP a part of the project's DMP? - In certain calls, the DMP template includes a section for software, but a DMP is focused on data, not on software and it is not designed for software management.*

Question sans réponse.