The years 2017-2023

Maria Dimou initiated and completed several projects with focus on Education. She:

- chaired the CERN Academic Training Committee (ATC). From the beginning of her ATC membership, she sponsored or proposed more than 50 lecture series. Site (React and Django technology) is https://academictraining.cern.ch (https://academictraining.cern.ch)
- sponsored “Terra Incognita” talks, to cultivate cross-group collaboration. Index until 2021 https://indico.cern.ch/category/11108/ (https://indico.cern.ch/category/11108/) and earlier index https://indico.cern.ch/category/2254/ (https://indico.cern.ch/category/2254/)
- initiated the IT e-learning project, which produced 57 videos in the CERN Document Server (CDS) https://cds.cern.ch/collection/E-learning modules (https://cds.cern.ch/collection/E-learning%20modules)
- Sponsored several Usability studies, all results indexed in https://indico.cern.ch/category/7442/ (https://indico.cern.ch/category/7442/), together with other (137 in total) related events, presentations, tests, rehearsals, recordings.
- Co-chaired the Documentation Project, in the framework of MAlt (Microsoft Alternatives), which achieved the acceptance of Markdown for writing IT services’ documentation and the adoption of URL format *service*.**docs**.cern.ch.
- Actively participated and co-edited the CERN IT Education Strategy document, not pursued by the management for completion.
- Invested 2 years of intense effort with documents, presentations, tests and Proof-of-Concept projects, to support and engage CERN in Sir Tim Berners-Lee Solid. All info on this effort can be found in http://solid.cern.ch (http://solid.cern.ch). CERN didn’t pursue this project.
- Evaluated automatic transcription tools and documented the selection process.
- Actively participated in the CERN Women In Technology (WIT) activities, including interviewing Tanya Levshina - computer scientist from Fermilab, Noor Afshan Fathima - IT accessibility expert, Dana Moshkovitz Aaronson - theoretical computer scientist, and Mookie Menuhin - pianist and neuroscientist. These interviews are indexed in https://indico.cern.ch/category/8115/ (https://indico.cern.ch/category/8115/)
- Defined Key Performance Indicators for measurement of the team’s achievements in numbers of Talks, Presentations, Web pages/sites and other learning activities. The document https://codimd.web.cern.ch/u25k6j-mTQSLPKOuxwhPlw# (https://codimd.web.cern.ch/u25k6j-mTQSLPKOuxwhPlw#) is public and the figures are private in gitlab.cern.ch (http://gitlab.cern.ch).

These projects, and several others, were possible, largely thanks to the enthusiasm and professionalism of a few BSc and MSc Computer Science students, most of whom worked free-of-charge or for the “symbolic” internship fee. Their names are not disclosed here, for privacy reasons but they can be seen on the Indico events listed above.

Maria Dimou wrote about 160 CodiMD notes, multiple userguides in Markdown, about 450 twiki pages, chaired and presented in hundreds of events during this period. She created several web sites, all with Open Source technologies. She also has a great amount of web pages, written in HTML and stored in Afs.

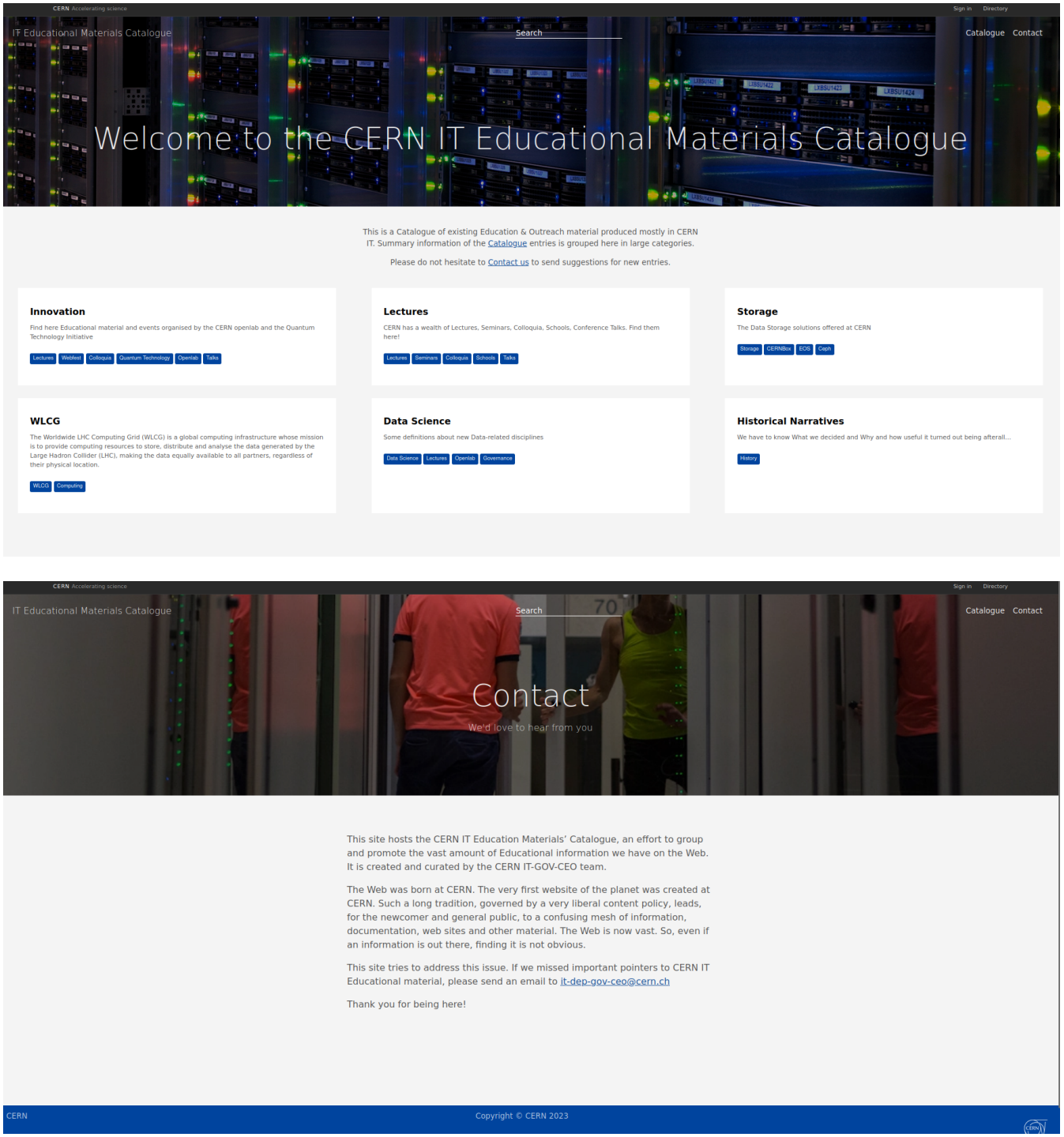
Most of the above is going to be erased by the current CERN IT policies, it is doubtful that Jekyll, Hugo, Drupal, Afs web sites will survive to still prove this work.

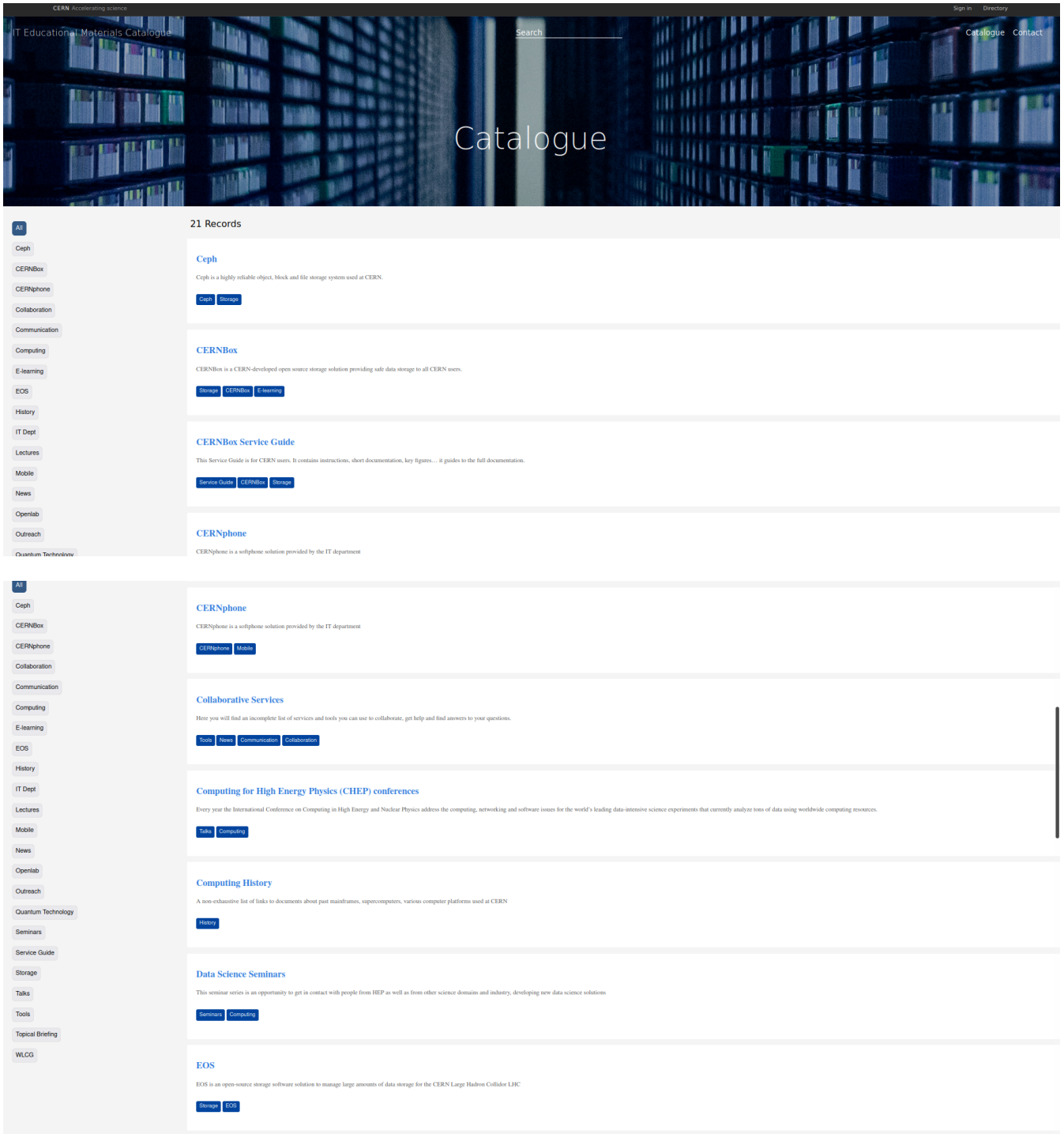
This is why, in no particular order, a very small subset of screenshots show the look and feel of those sites.

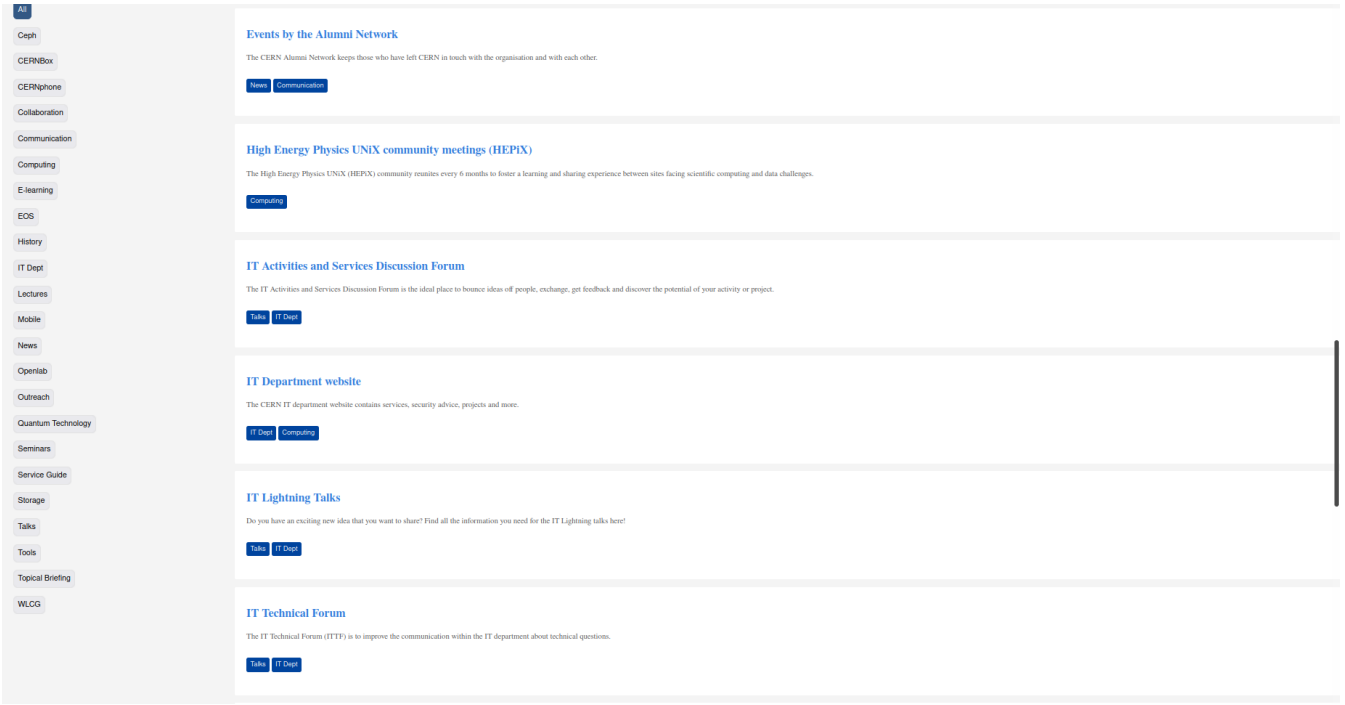
The Educational Materials Catalogue

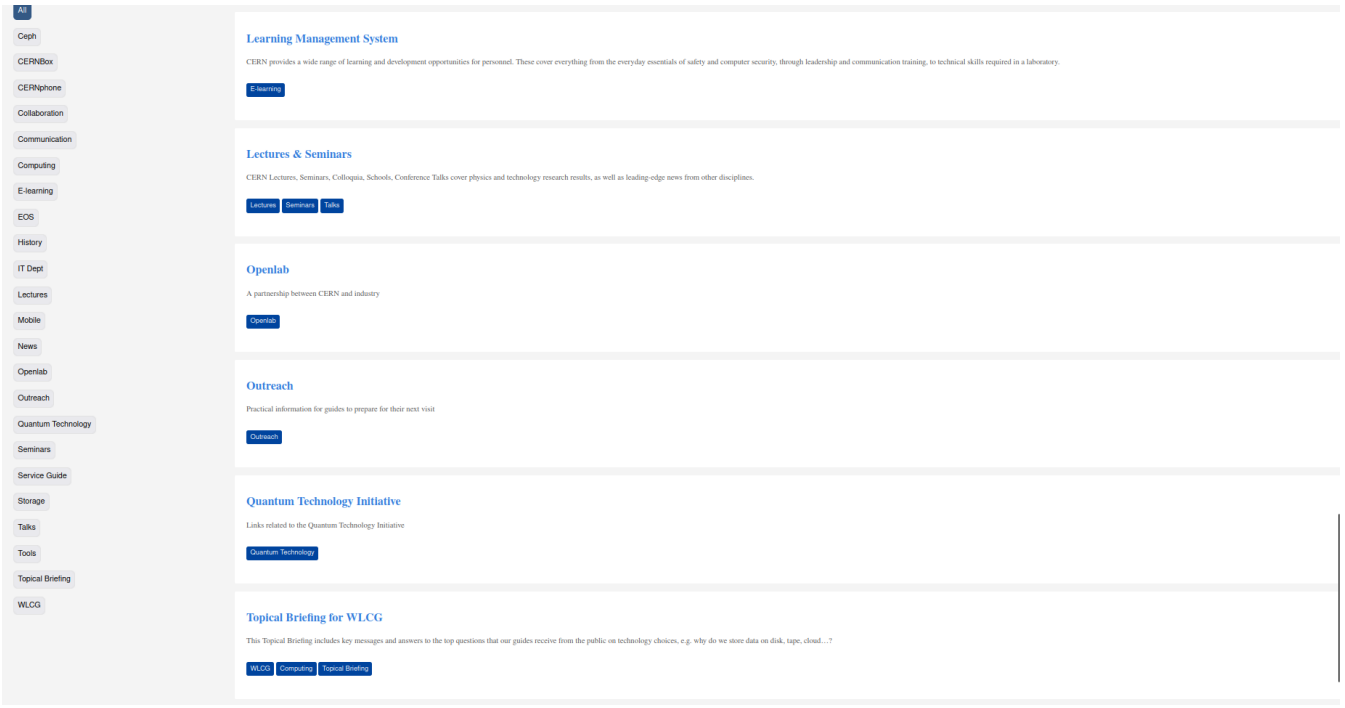
Site https://cern.ch/it-edu (https://cern.ch/it-edu)

This site was born in the period 02-06/2023 to hold CERN IT info of Educational nature. Dozens of pages were written by Audrey Martelly (intern) and Maria Dimou (supervisor). Here are some example screenshots in case the site is closed:




CERN Accelerating science
Sign in
Directory
IT Educational Materials Catalogue
Search
Catalogue
Contact
Catalogue
All
Ceph
CERNBox
CERNphone
Collaboration
Communication
Computing
E-learning
EOS
History
IT Dept
Lectures
Mobile
News
Openlab
Outreach
Quantum Technology
21 Records
Ceph
Ceph is a highly reliable object, block and file storage system used at CERN.
Ceph
Storage
CERNBox
CERNBox is a CERN-developed open source storage solution providing safe data storage to all CERN users.
Storage
CERNBox
E-learning
CERNBox Service Guide
This Service Guide is for CERN users. It contains instructions, short documentation, key figures… it guides to the full documentation.
Service Guide
CERNBox
Storage
CERNphone
CERNphone is a softphone solution provided by the IT department
All
Ceph
CERNBox
CERNphone
Collaboration
Communication
Computing
E-learning
EOS
History
IT Dept
Lectures
Mobile
News
Openlab
Outreach
Quantum Technology
Seminars
Service Guide
Storage
Talks
Tools
Topical Briefing
WLCG
CERNphone
CERNphone is a softphone solution provided by the IT department
CERNphone
Mobile
Collaborative Services
Here you will find an incomplete list of services and tools you can use to collaborate, get help and find answers to your questions.
Tools
News
Communication
Collaboration
Computing for High Energy Physics (CHEP) conferences
Every year the International Conference on Computing in High Energy and Nuclear Physics address the computing, networking and software issues for the world's leading data-intensive science experiments that currently analyze tons of data using worldwide computing resources.
Talks
Computing
Computing History
A non-exhaustive list of links to documents about past mainframes, supercomputers, various computer platforms used at CERN
History
Data Science Seminars
This seminar series is an opportunity to get in contact with people from HEP as well as from other science domains and industry, developing new data science solutions
Seminars
Computing
EOS
EOS is an open-source storage software solution to manage large amounts of data storage for the CERN Large Hadron Collidor LHC
Storage
EOS





Catalogue page examples

CATALOGUE

CERNBox

Storage CERNBox E-learning

CERNBox is a CERN-developed open source solution, providing safe EU-based cloud data storage to all CERN users. You can store your data, share it and synchronise it across devices - smartphones, tablets, laptops, desktops, the lot! The data can be accessed from any Web browser or file explorer, and you decide which data you want to share with other individuals or groups of collaborators. Installation instructions, user guides and FAQs are well explained and maintained in the documentation .

E-learning modules

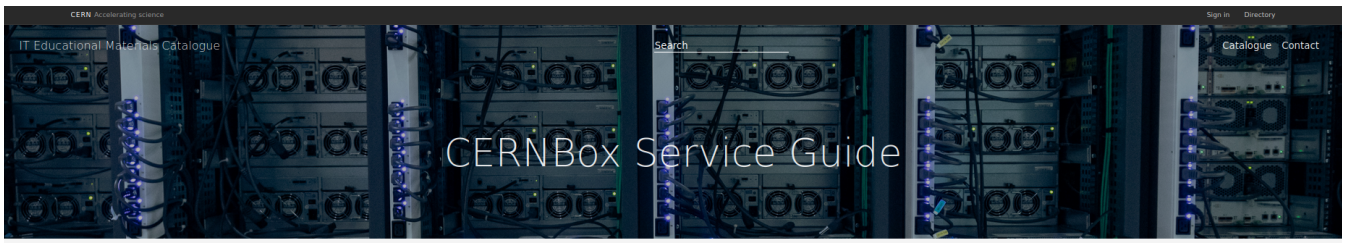
Visit the following e-learning links to watch three very short and clear videos on:

- How to install the CERNBox client application
- How to share files or folders on CERNBox
- How to sync a shared folder

Useful Links

- User forum
- Papers:

E-learning modules
Useful Links
Something missing here?



CATALOGUE

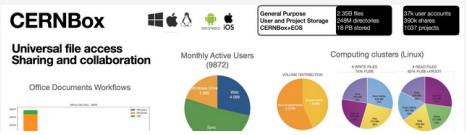
CERNBox Service Guide

Service Guide CERNBox Storage

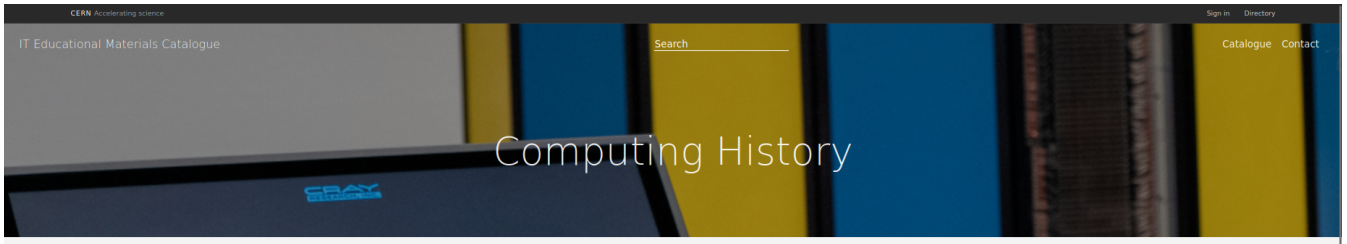
CERNBox is a CERN-developed open source solution, providing safe EU-based cloud data storage to all CERN users. You can *store* your data, *share* it and *synchronise* it across devices - smartphones, tablets, laptops, desktops, the lot! The data can be accessed from any Web browser or file explorer, and you decide which data you want to share with other individuals or groups of collaborators. The cloud solution used is owncloud. CERN users can activate/access their CERNBox space by logging into https://cernbox.cern.ch/

Key figures

- 2014: CERNBox, as a project initiative is launched by the CERN IT Storage Group to address the necessity of offering an easy and convenient way to access and share the physics data.
- 1 TeraByte (TB) of storage available to each CERN user. One TB corresponds to 500 hours of HD video.
- 2019-2022: All CERN users' data migration from DFS to CERNBox.
- 2016-2022: The number of users increases by 10 (4K users in 2016 vs 40K users in 2022).
- The figures in the appended image are valid until July 2023:



Key figures
Contacts
CERNBox-related References
More CERN Storage solutions References
Something missing here?



CATALOGUE

Computing History

History

The Challenge
CERN Computing History
Network Protocols
Email at CERN
Web at CERN
The history of the Shift and Grid projects
Distributed filesystems
Computer architectures
Great fun
A unifying idea
Credits
Surely plenty of stuff missing here...

The Challenge

To record what happened in the past, one has to see the value of data, documents' and devices' preservation. To display what happened in the past, one needs persistent URIs (Uniform Resource Identifiers). To find the information available, one needs good-quality metadata. All this looks like *documentation*, something hard to find the time to create and curate. This is why all the appended text and links are just an incomplete list.

CERN Computing History

Existing collection of documents on the IT website

Network Protocols

- 2022 CERN Academic Training on Distributed Computing - The Protocol Wars - Abstract, slides, video and related material

Email at CERN

2022 CERN Academic Training on Distributed Computing - The era of EARN/BITNET, DECnet, X.400 and more - Abstract, slides, video . and List of documents on the network options and List of documents on the Email (gateway) architecture

Web at CERN

The Challenge
CERN Computing History
Network Protocols
Email at CERN
Web at CERN
The history of the Shift and Grid projects
Distributed filesystems
Computer architectures
Great fun
A unifying idea
Credits
Surely plenty of stuff missing here...

Web at CERN

2022 CERN Academic Training on Distributed Computing - The first years of the Web and all anniversaries

The history of the Shift and Grid projects

- The dedicated site on WLCG History
- The Grid software "museum"
- 2022 CERN Academic Training on Distributed Computing - Abstract, slides, video and related material

Distributed filesystems

A historical series on the Andrew File System (Afs) by its elders - Abstract, slides, video

Computer architectures

In the 1980ies CERN IT (then called Data and Documents (DD) Division) was offering the experiments computing services on the CDC and IBM MVS Operating System. IBM VM CERNVM) was also here before the end of that decade, essentially offering an interactive counterpart to MVS. The arrival of the Cray in 1988 meant taking research both into the Supercomputers' League and into Unix through Cray's variant (UNICOS). The experiments were invited to evaluate it and some did, e.g. UA1. Porting the software to run on the Cray was a challenging task because it had been developed and thoroughly tested only on 32-bit IBMs, the Cray X-MP was the first 64-bit one.

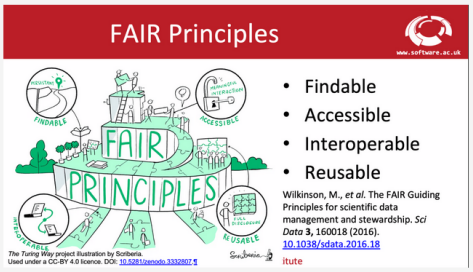
For the Large Electron Positron (LEP) start-up in the autumn of 1989, experiments required VMS. For central computing CERN DD Division relied on the IBM collaboration that had started in 1976. In 1989 the DD division leader, purchased a big IBM machine with 6 CPUs. This computer required a "Big Bang" solution (HW AND SW changed simultaneously). Mainframes were the standard. The biggest machines could provide VM/XA (extended architecture) making 32-bit computing the norm. Expected to suffice for the requirements of the address space. There was some animosity between VM and VMS users. IBM tape store and IBM robot solved the problem. The choice was obvious. DECnet was used across labs. VAX/VMS had to be kept for this reason. APL, PL1, REXX were the IBM programming languages used. At the time research and academia were producing software solutions, e.g. the Fortran Compiler was written by Waterloo University, Ontario, Canada. CREN also bought an IBM compatible Fujitsu-Siemens mainframe, in order to also have a European computer. CDC 7600 (Control Data Corporation) operated here for 12 years. 1972-1984. Batch only. Fortran with Geant3. In 1993 a performance optimisation of RISC workstations project took place in the SHIFT project. A CHEP 1995 presentation by S.Jarp demonstrated that PCs could do better that RISC. At the time price/performance was best for HP/PCs with Windows (which supported 2 processors) rather than Linux (only 1 processor), until Linux came along with support for 2 processors and better performance. The Linux choice then became obvious.

Great fun

A Digital Memory video in CDS , with images from the life of the laboratory in past years and Internet father Vint Cerf lecturing on how to safely preserve data.

A unifying idea

… would be to use what we learnt from experience in the Data Preservation, the Digital Memory and our Open Source expertise to organise our historical information and repositories and documents with the FAIR principles in mind.



Credits

Material from this page taken from documents by M.Dimou, F.Hemmer, S.Jarp, J.-Y.LeMeur, M.Marquina, L.Robertson, B.Segal and many more.

Surely plenty of stuff missing here…

Please use the Contact link to send us suggestions for new entries.

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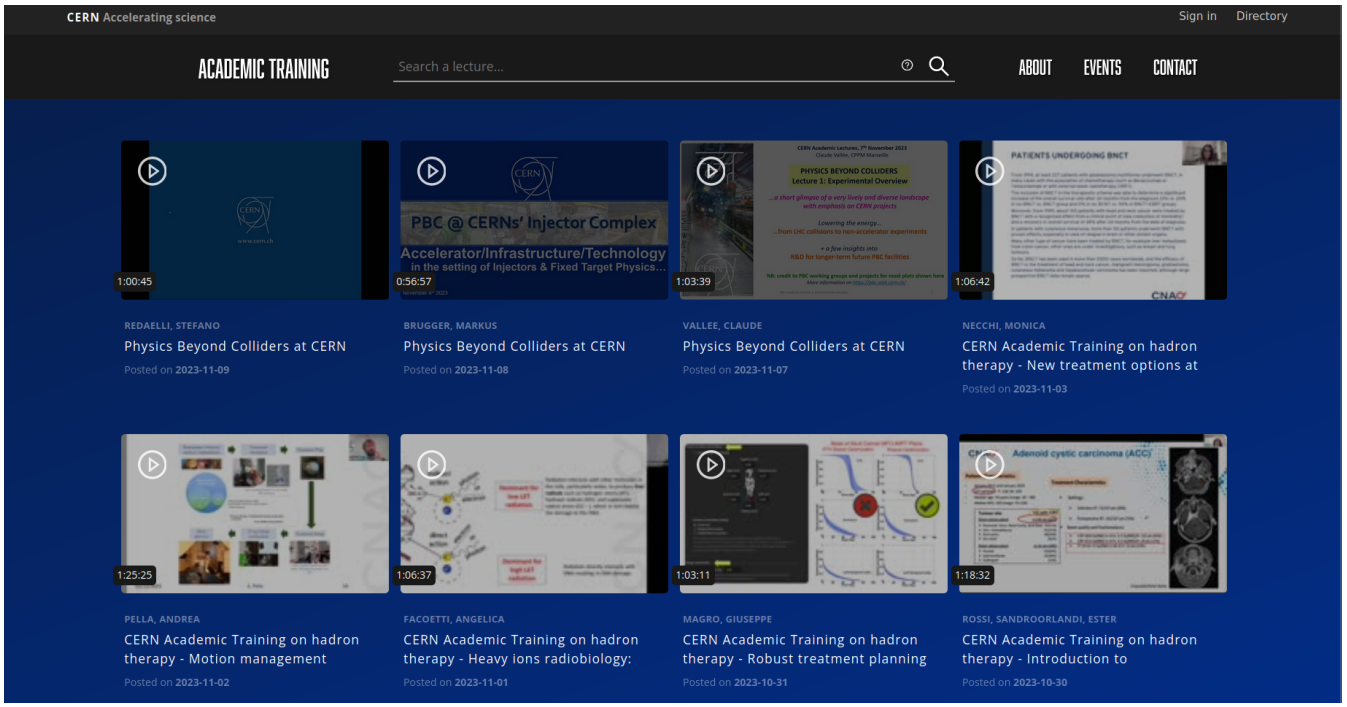
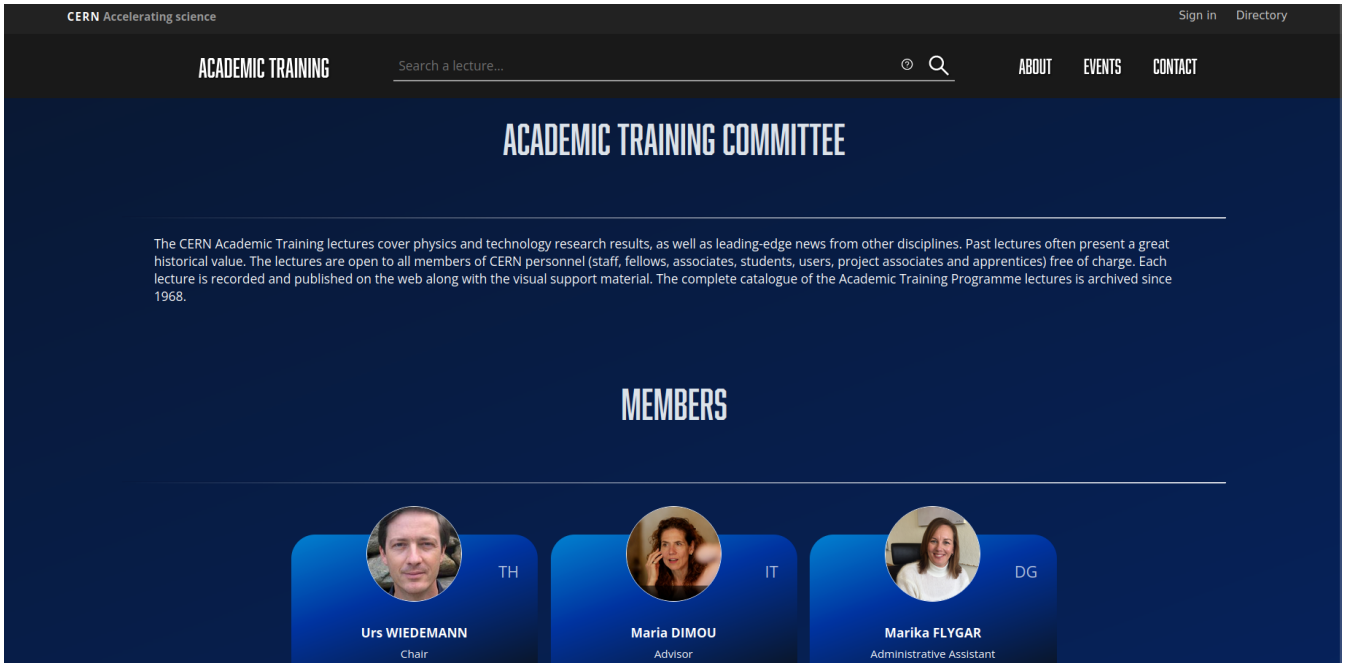
Academic Training

End product https://academictraining.cern.ch/ (https://academictraining.cern.ch/)
Progress reports https://indico.cern.ch/event/1136720/ (https://indico.cern.ch/event/1136720/)
Multiple presentations to stake holders are in restricted-access Indico category “Academic Training Committee”.
Some screenshots:

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The CERN Academic Training lectures cover physics and technology research results, as well as leading-edge news from other disciplines. Past lectures often present a great historical value. The lectures are open to all members of CERN personnel (staff, fellows, associates, students, users, project associates and apprentices) free of charge. Each lecture is recorded and published on the web along with the visual support material. The complete catalogue of the Academic Training Programme lectures is archived since 1968.
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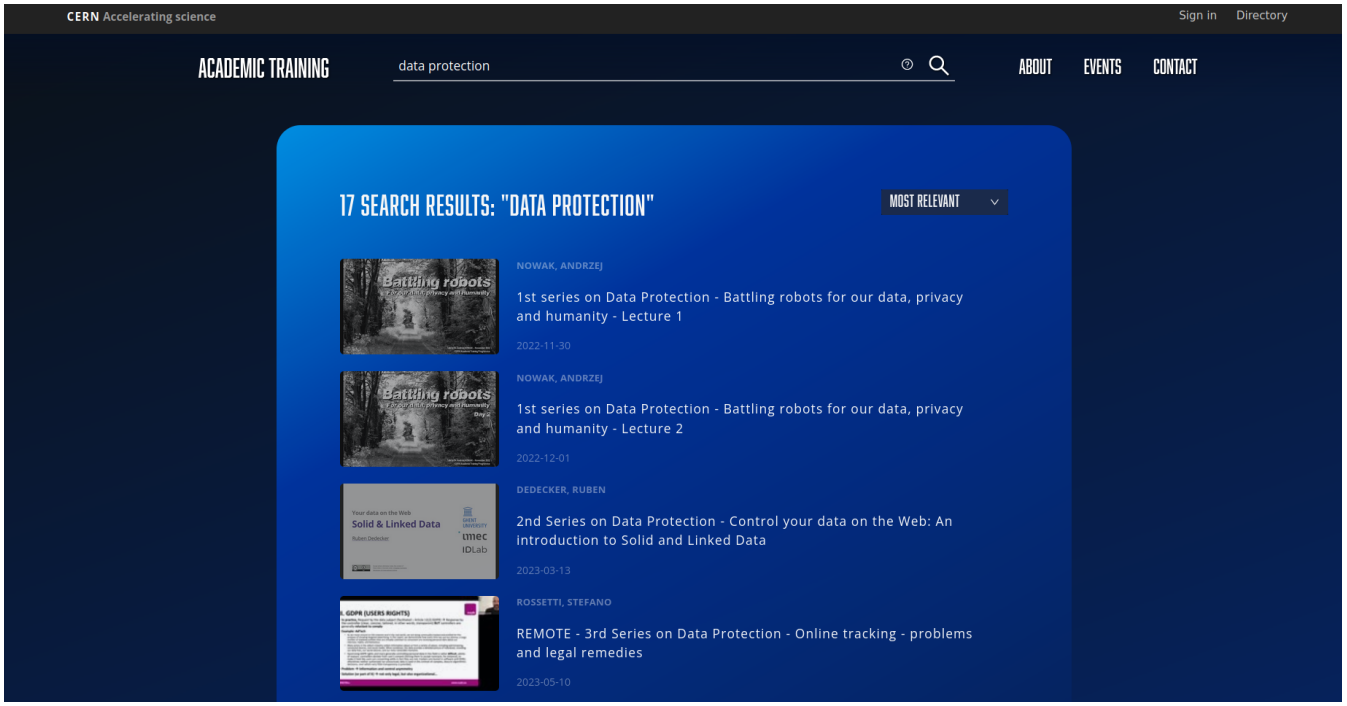
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data protection
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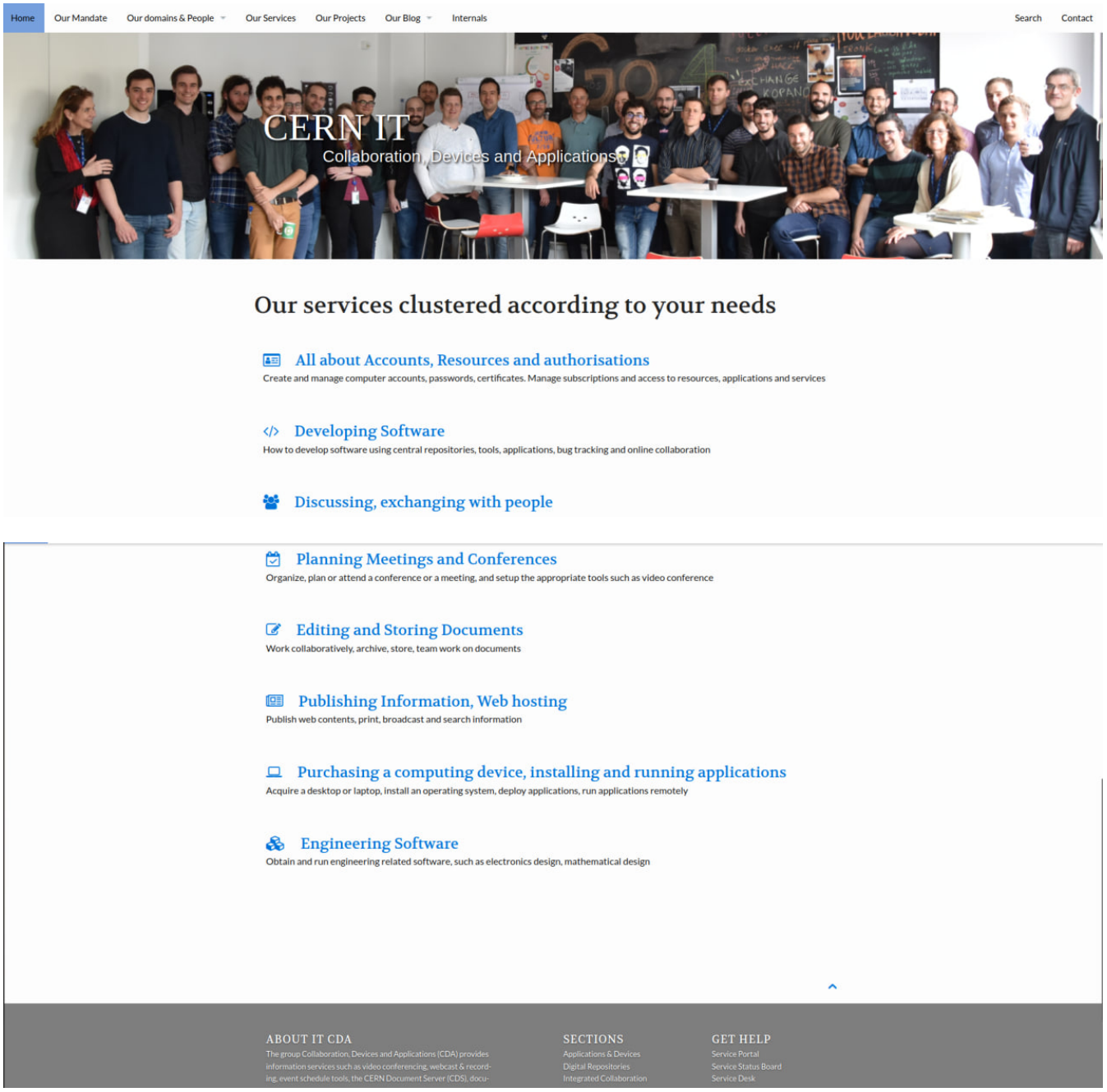
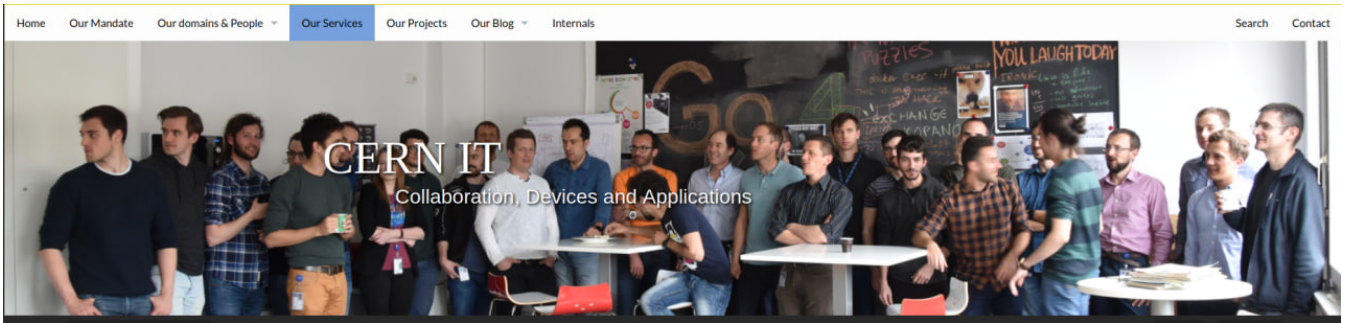
17 SEARCH RESULTS: "DATA PROTECTION"
MOST RELEVANT
NOWAK, ANDRZEJ
1st series on Data Protection - Battling robots for our data, privacy and humanity - Lecture 1
2022-11-30
NOWAK, ANDRZEJ
1st series on Data Protection - Battling robots for our data, privacy and humanity - Lecture 2
2022-12-01
DEDECKER, RUBEN
2nd Series on Data Protection - Control your data on the Web: An introduction to Solid and Linked Data
2023-03-13
ROSSETTI, STEFANO
REMOTE - 3rd Series on Data Protection - Online tracking - problems and legal remedies
2023-05-10

User-stories' based service site

Site: https://cern.ch/it-dep-cda (https://cern.ch/it-dep-cda)



Service catalogue



This website is no longer maintained. Its content may be obsolete. Please visit http://home.cern/ for current CERN information.

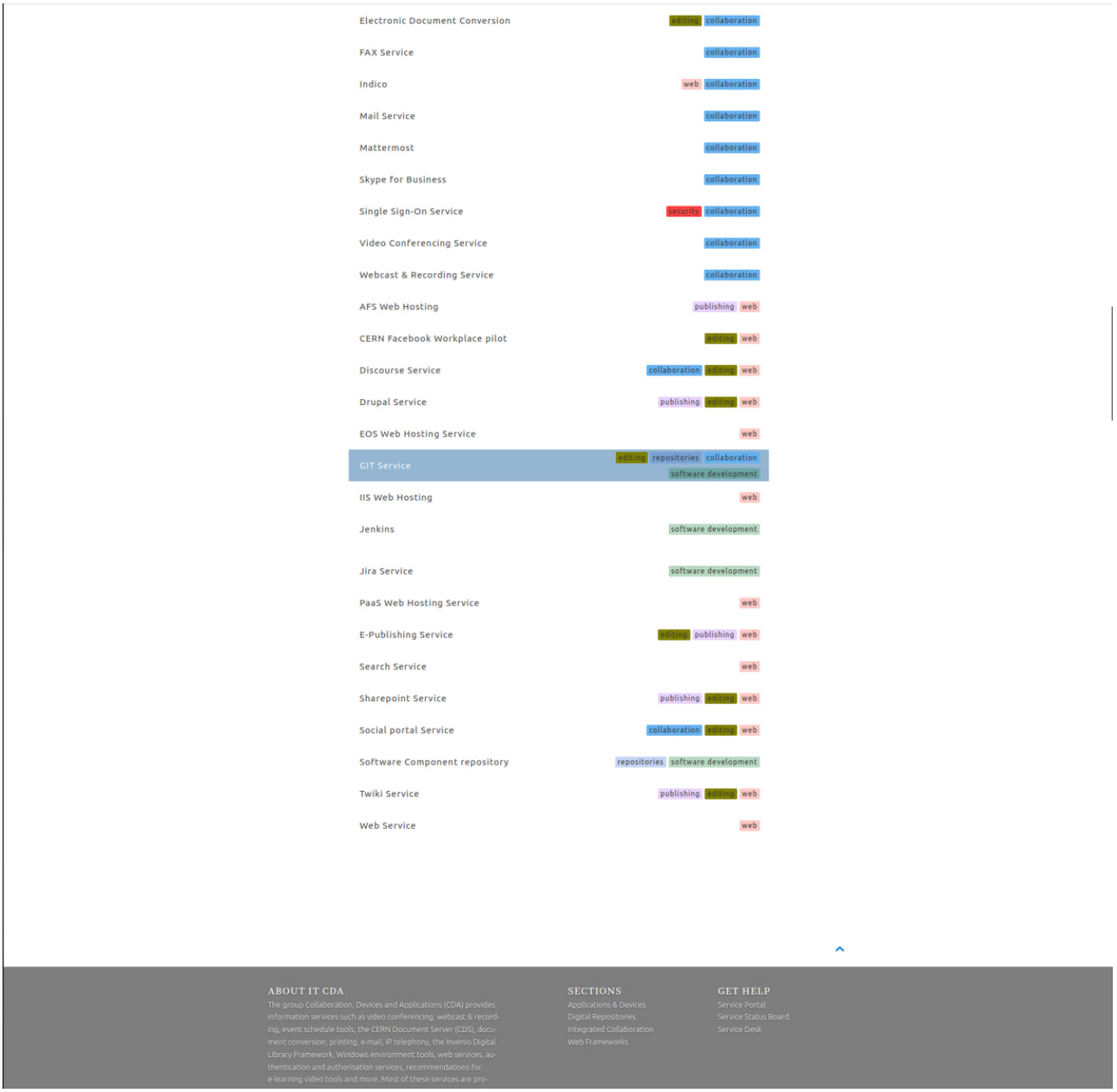
Search for services

Deselect all

software development | repositories | collaboration | web | printing

devices | licenses | editing | archive | publishing | security

Android	devices
Anti-virus	security
Apple contract support	devices
Application Provisioning	licenses
DFS Service	archive
Electronics Design Software Service	licenses
HPC Engineering Applications	software development
Hardware repair	devices
iOS Service	devices
MAC Desktop Service	licenses devices
Mathematics Software Service	licenses devices
Mechanical Design Software Service	licenses devices
Onsite Information Display Service	devices
PC Procurement	devices
Printing Devices' Support	printing
Printshop Operation	printing
Public PC Service	devices
Windows Desktop Service	licenses devices
Windows HPC	licenses
Windows Installation & CMF Service	licenses
Windows HPC	licenses
Windows Installation & CMF Service	licenses
Windows License Server	licenses devices
Windows Server Infrastructure	licenses devices
Windows Terminal Servers	devices
CERN Document Server	archive publishing repositories
CERN Analysis Preservation	software development repositories
CERN Open Data	software development publishing repositories
Digital Memory Project	archive repositories
Invenio	archive publishing repositories
REANA	software development
Zenodo	publishing repositories
Account Management Service	security collaboration
Certification Authority Service	security collaboration
CodiMD Service	editing collaboration
Conference Rooms Service	collaboration
The CERN IT e-learning Service	publishing collaboration

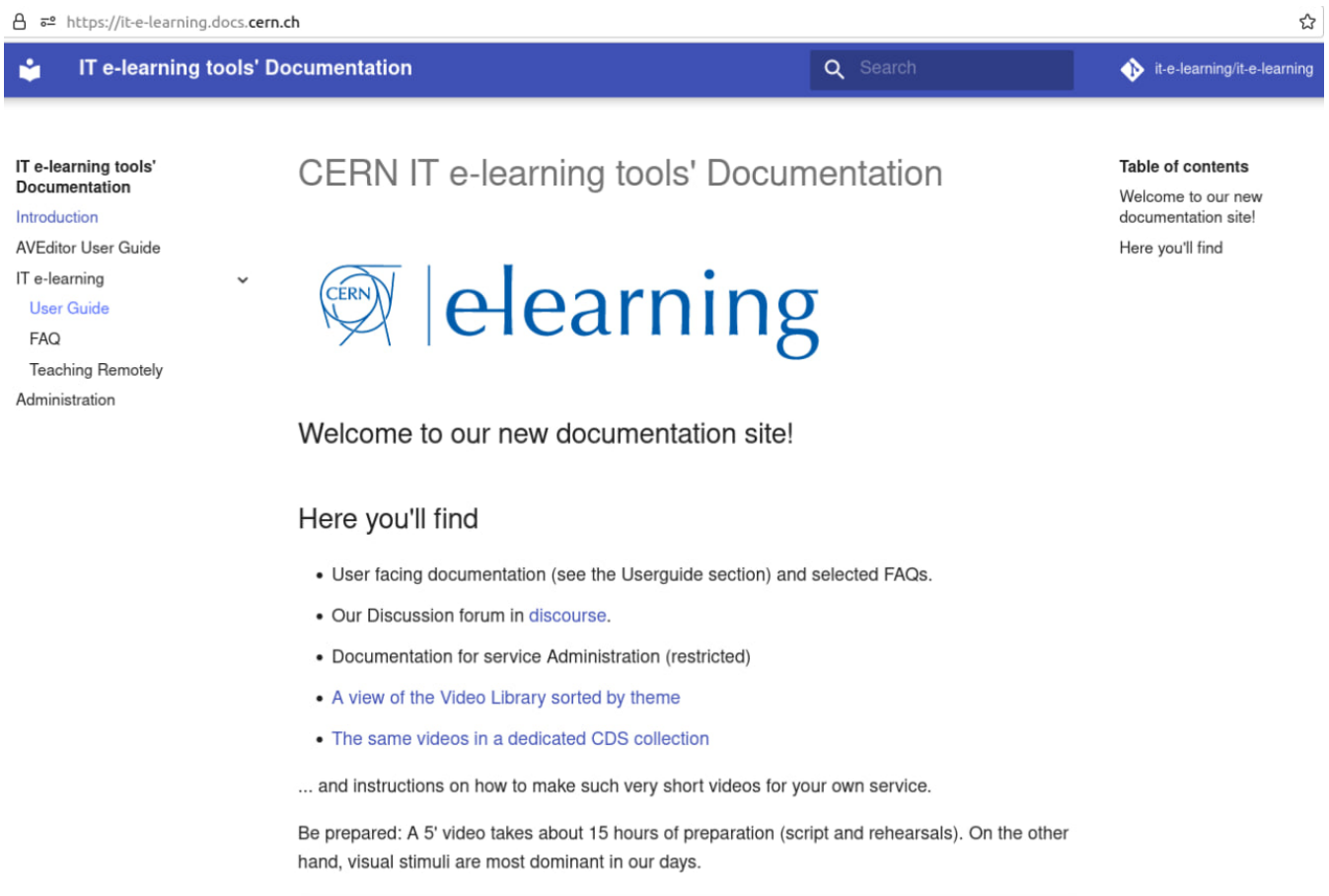


Example of service page

With service summary and contact and individual service-related image.

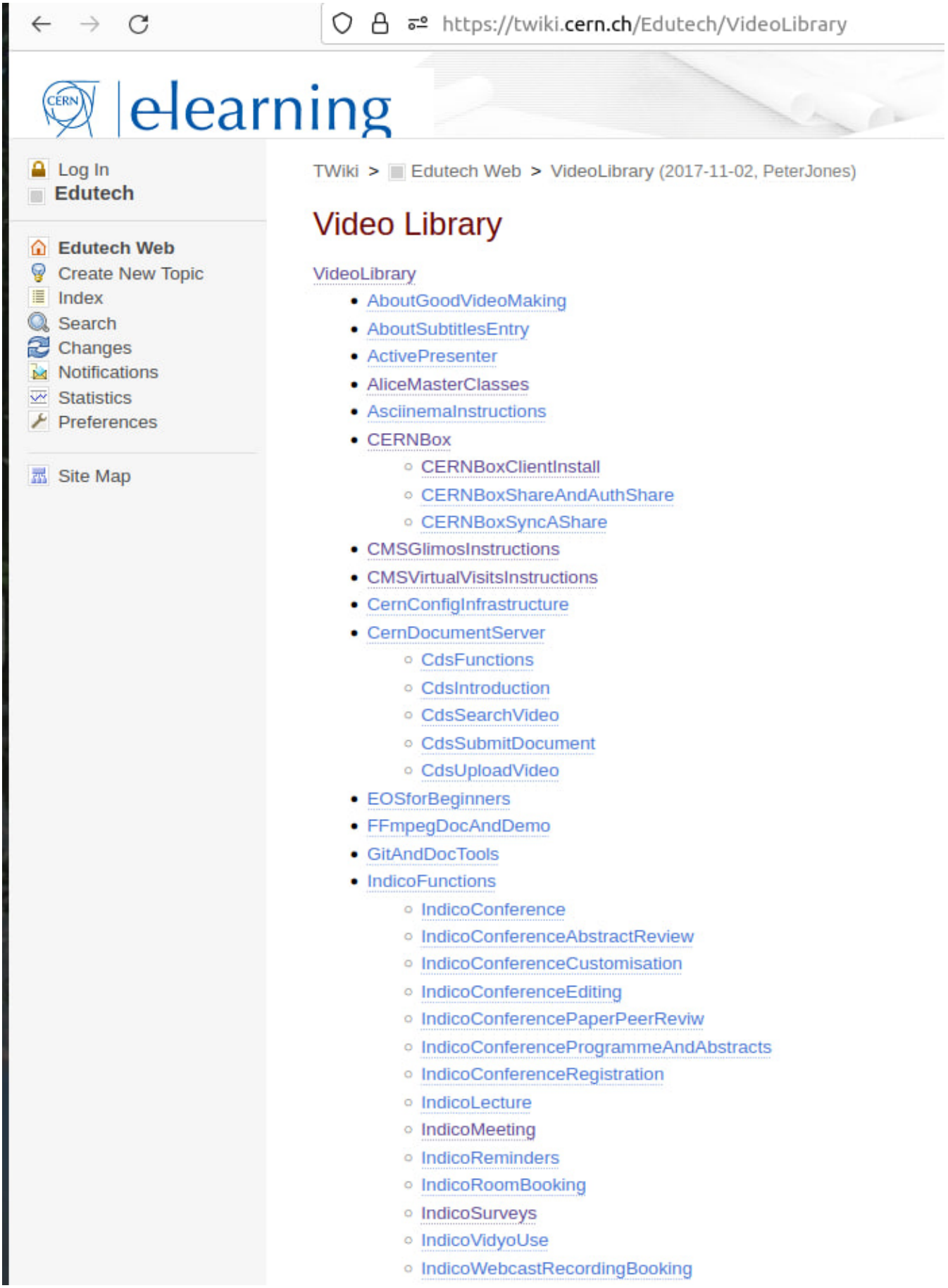
Home
Our Mandate
Our domains & People
Our Services
Our Projects
Our Blog
Internals
Search
Contact
CERN IT
Collaboration, Devices and Applications
Home / Services / The CERN IT E-Learning Service
Important links
Entry Point
Service Status
Service Portal Articles
Report an Incident
Submit a Request
Community Discussion
The CERN IT e-learning Service
The CERN IT e-learning lightweight service provides advice on how to make a short video to inform your users about your services' cool features and news. For viewers to stay to the end, the videos should, ideally, not exceed 5 minutes. The videos can be recorded by the CERN audiovisual services and/or screen capture tools at the desk.
CERN safety, management and languagein the training catalogue courses also contain e-learning components. These are outside the scope of this service.
Documentation links
1. Detailed documentation
2. All the video tutorials clustered by domain.
3. The same (and more) video tutorials in CDS

IT e-learning



VideoLibrary

Site: https://twiki.cern.ch/Edutech/VideoLibrary (https://twiki.cern.ch/Edutech/VideoLibrary)


https://twiki.cern.ch/Edutech/VideoLibrary
elearning
Log In
Edutech
Edutech Web
Create New Topic
Index
Search
Changes
Notifications
Statistics
Preferences
Site Map
TWiki > Edutech Web > VideoLibrary (2017-11-02, PeterJones)
Video Library
VideoLibrary
AboutGoodVideoMaking
AboutSubtitlesEntry
ActivePresenter
AliceMasterClasses
AsciinemaInstructions
CERNBox
CERNBoxClientInstall
CERNBoxShareAndAuthShare
CERNBoxSyncAShare
CMSGlimosInstructions
CMSVirtualVisitsInstructions
CernConfigInfrastructure
CernDocumentServer
CdsFunctions
CdsIntroduction
CdsSearchVideo
CdsSubmitDocument
CdsUploadVideo
EOSforBeginners
FFmpegDocAndDemo
GitAndDocTools
IndicoFunctions
IndicoConference
IndicoConferenceAbstractReview
IndicoConferenceCustomisation
IndicoConferenceEditing
IndicoConferencePaperPeerReviw
IndicoConferenceProgrammeAndAbstracts
IndicoConferenceRegistration
IndicoLecture
IndicoMeeting
IndicoReminders
IndicoRoomBooking
IndicoSurveys
IndicoVidyoUse
IndicoWebcastRecordingBooking

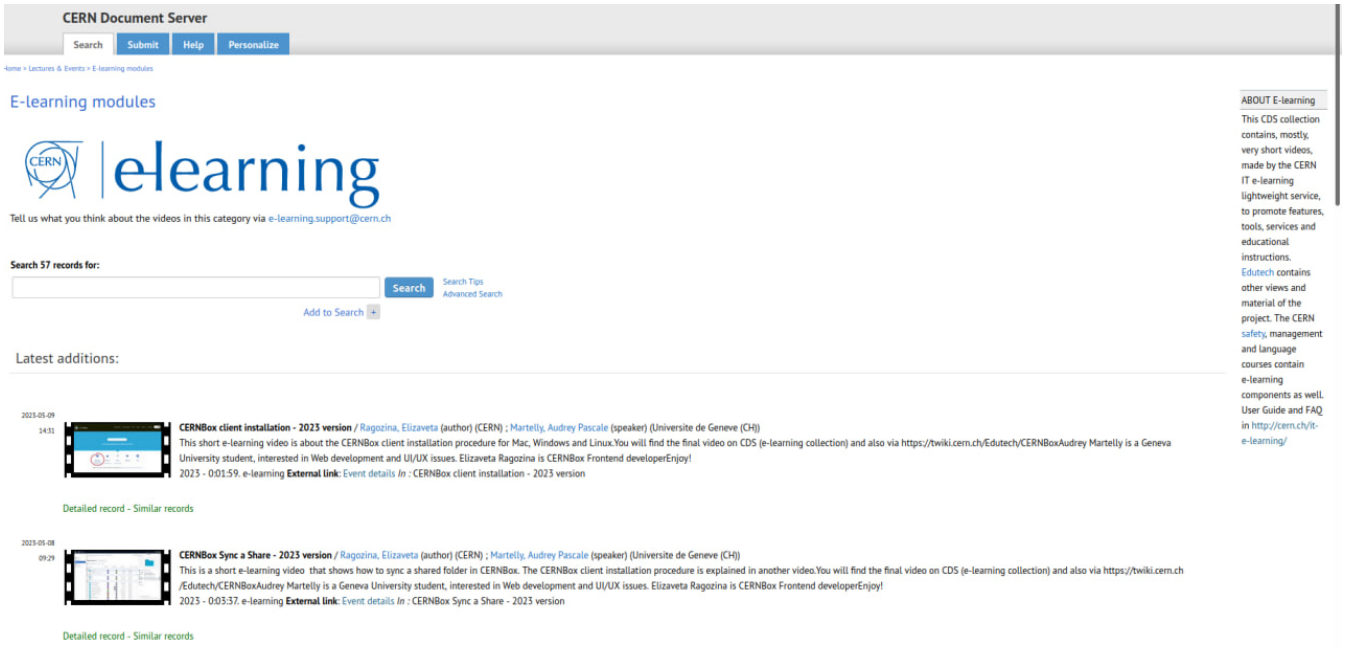
- LHCathomeTutorials
  - LHCathomeLinuxTutorial
  - LHCathomeMacTutorial
  - LHCathomeWindowsTutorial
- PrintFunctions
  - ImpressionSecuriseeMac
  - ImpressionSecuriseeWindows
  - Mail2Print
  - SecurePrintMac
  - SecurePrintWindows
- QuickTime
- SkypeForBusiness
- TWikiUserTutorials
  - TWikiTutorialAttachingFile
  - TWikiTutorialDeletingTopic
  - TWikiTutorialRollbackVersion
- ToolsForTheWeb
  - AfsToEosWebMigration
- TranscribeYourVideo

Visitors by Year

2016: 563
2017: 752
2018: 1501
2019: 3728
2020: 8968
2021: 8340
2022: 3056
2023: 259
Total: 27167 visitors

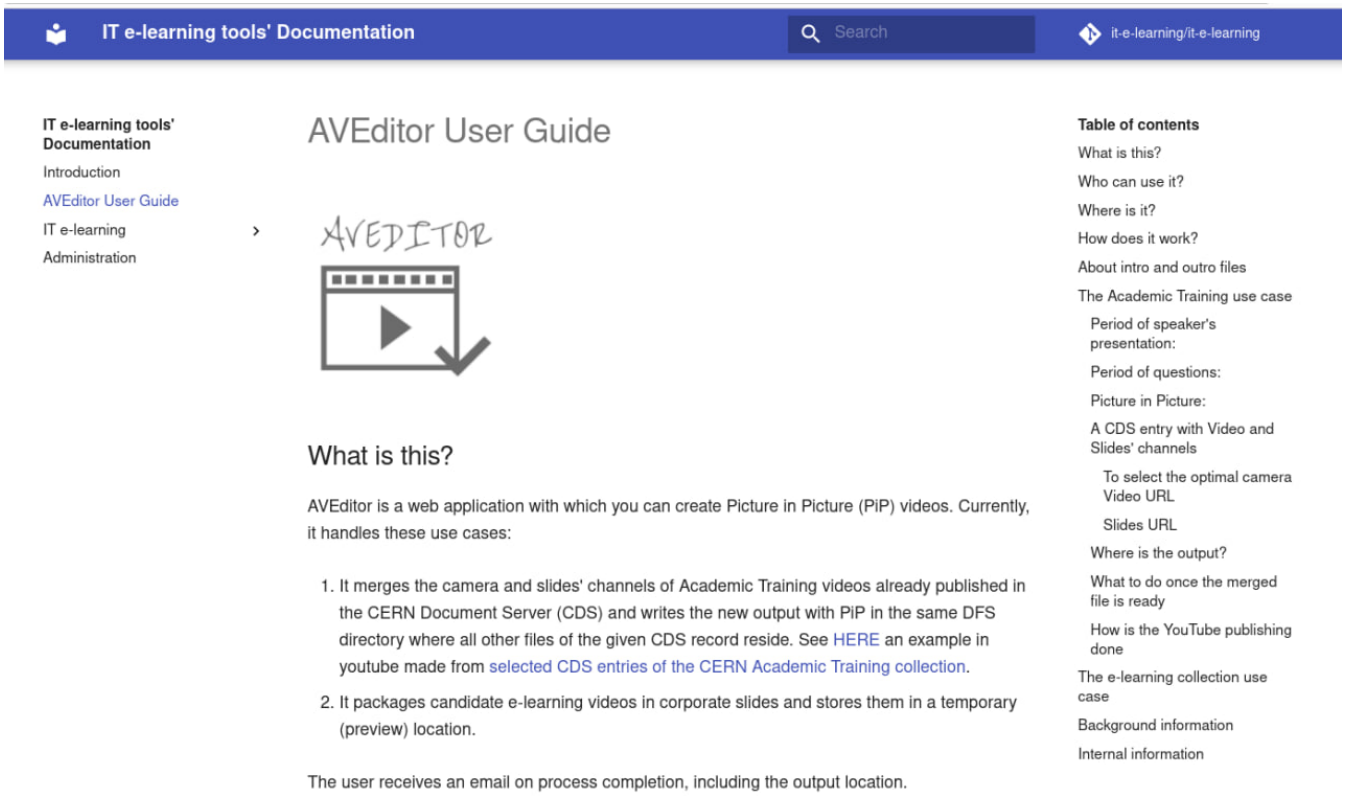
eoLibrary

CDS view - same e-learning videos



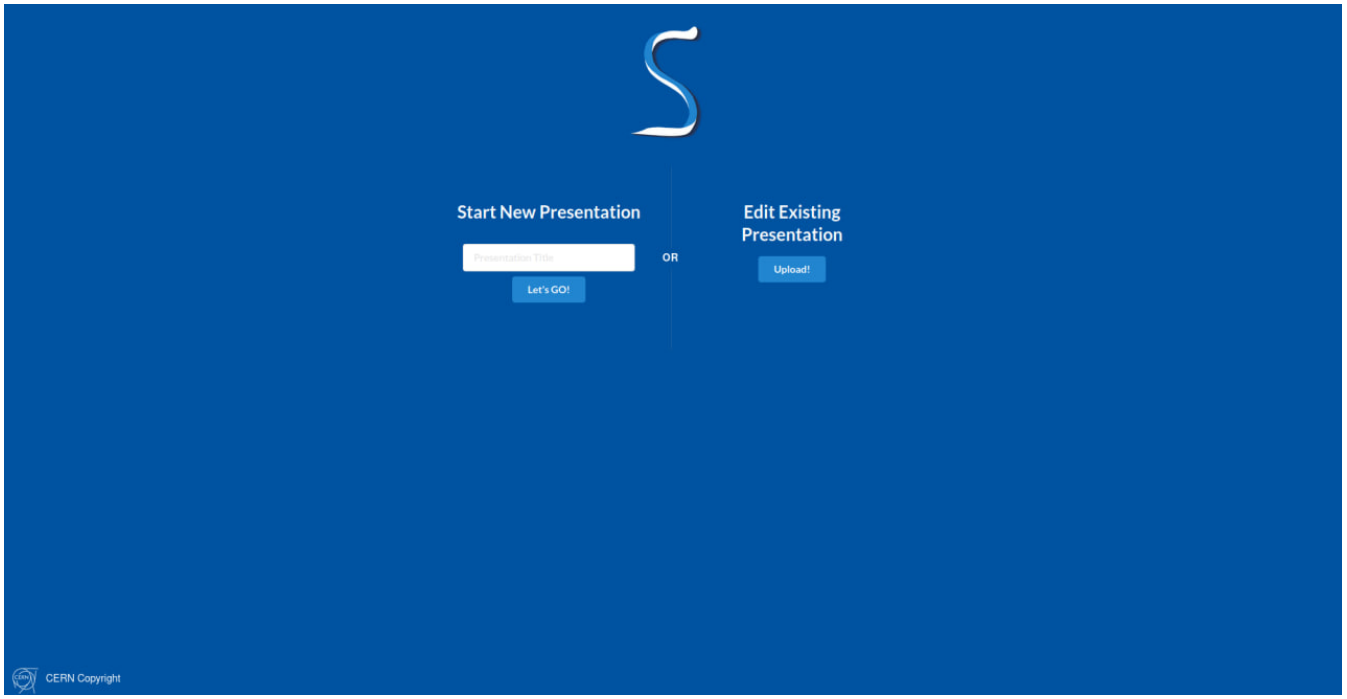
eoLibrary

AVEditor



Slides project

Web-based slide maker. Site: https://cern.ch/slides (https://cern.ch/slides) (requires CERN login)



Slides' documentation

Site: https://slides.docs.cern.ch (https://slides.docs.cern.ch)

https://slides.docs.cern.ch

Slides Documentation | Search | GitLab

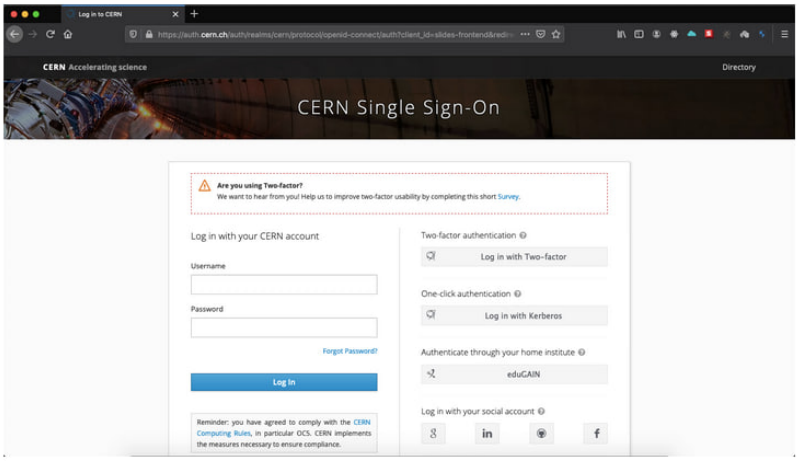
Slides Documentation

Quick User Guide

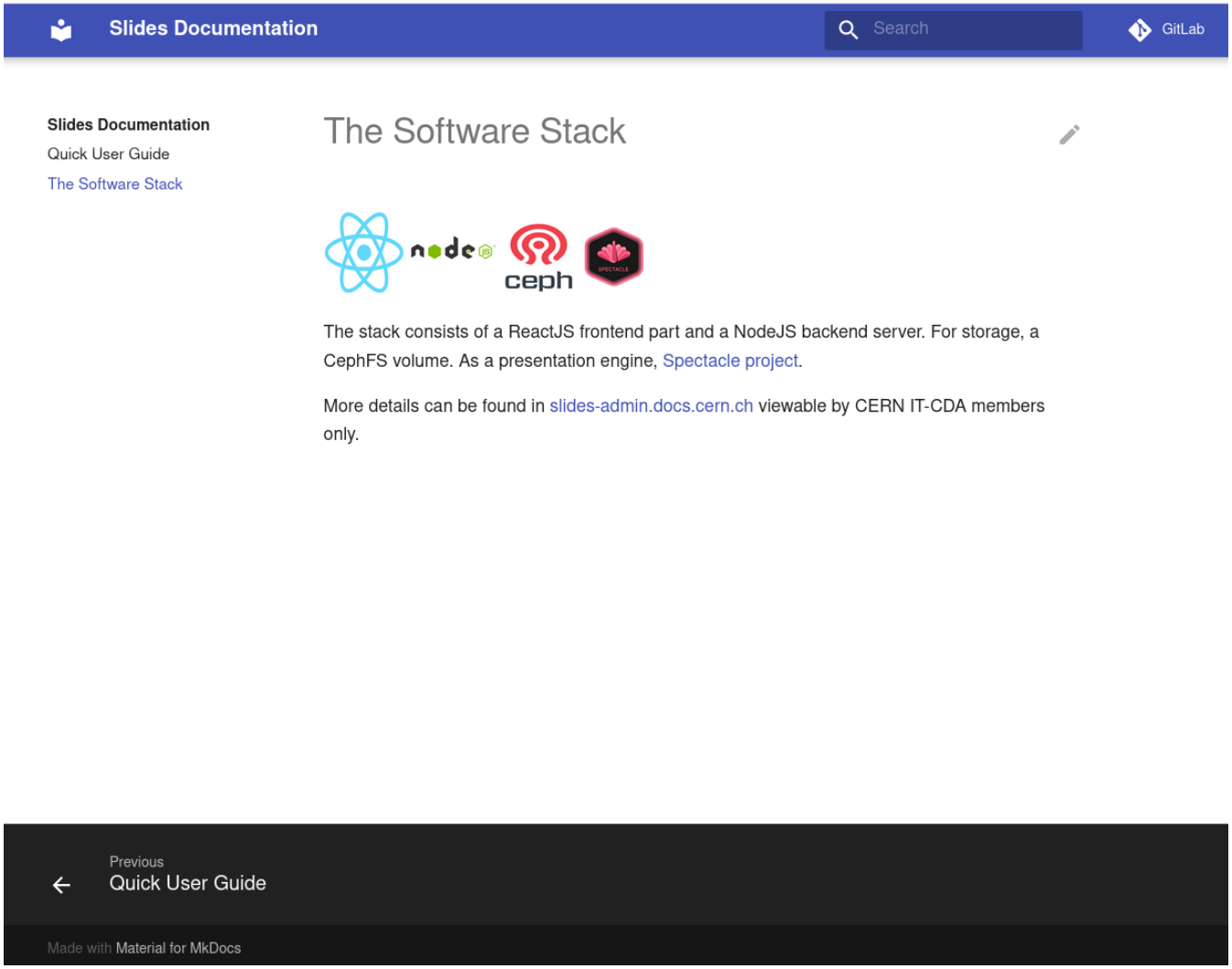
The Software Stack

How to use the CERN Slides' App

1. Go to: https://cern.ch/slides.
2. Login, using your CERN credentials.

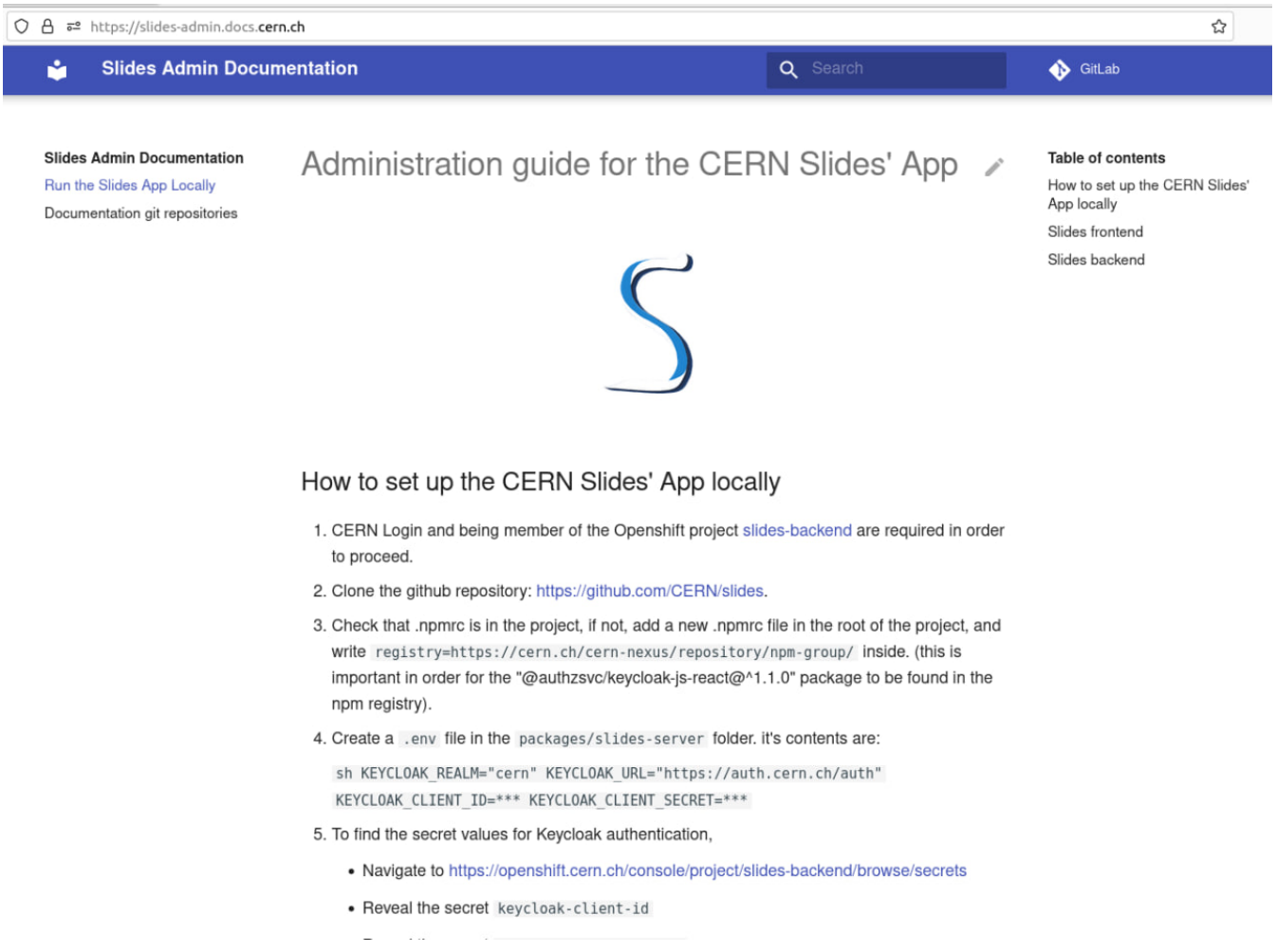


3. Give a title to your new presentation.



Slides' documentation for admins

Site: https://slides-admin.cern.ch (https://slides-admin.cern.ch)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Administration guide for the CERN Slides' App
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Slides backend
How to set up the CERN Slides' App locally
1. CERN Login and being member of the Openshift project slides-backend are required in order to proceed.
2. Clone the github repository: https://github.com/CERN/slides.
3. Check that .npmrc is in the project, if not, add a new .npmrc file in the root of the project, and write registry=https://cern.ch/cern-nexus/repository/npm-group/ inside. (this is important in order for the "@authzsvc/keycloak-js-react@^1.1.0" package to be found in the npm registry).
4. Create a .env file in the packages/slides-server folder. it's contents are:
sh KEYCLOAK_REALM="cern" KEYCLOAK_URL="https://auth.cern.ch/auth" KEYCLOAK_CLIENT_ID=*** KEYCLOAK_CLIENT_SECRET=***
5. To find the secret values for Keycloak authentication,
• Navigate to https://openshift.cern.ch/console/project/slides-backend/browse/secrets
• Reveal the secret keycloak-client-id

Theses supervised

- Alexandre Racine on e-learning techniques
- Jan Schill on the Solid project Proof of Concept
- Theo Meyer on the Solid Open Source server evaluation
- Aristofanis Chionis on web-based slides
- Franciska-Leonora Toeroek on the Academic Training web site

Their thesis reports are available on https://cds.cern.ch (https://cds.cern.ch)

Index of project proposals for students

This is Drupal site https://it-student-projects.web.cern.ch/projects/ongoing-accomplished (https://it-student-projects.web.cern.ch/projects/ongoing-accomplished), which will disappear probably soon. Here are some screenshots, although each project entry contained rich Definition, Resources and Outcome information.

Title	Published	Description	Duration	Contact	Status
CERN IT Education & Outreach materials' catalogue - Prototyping	25 Oct 2022	The Web was born at CERN. The very first site of the planet was created at CERN. Such a long tradition, governed by a very liberal content policy, leads, for ...	Six months	Maria Dimou	Accomplished
A catalogue of existing Education & Outreach material in the CERN IT department- Step 1	02 Aug 2022	The Web was born at CERN. The very first site of the planet was created at CERN. Such a long tradition might lead, for the newcomer and general public, to ...	10 days	Maria Dimou	Accomplished

CERN-Solid server hosting	20 Sep 2021	In the CERN IT/CDA group a lot of work was done in 2020-2021 to understand the Solid project ecosystem . Solid is here to stay and develop tools that give ...	3.5 months	Maria Dimou	Accomplished
Malt-related project: Usability study of the mail documentation	26 May 2021	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user. For a complete list of services ...	1-2 months at 50% working time (20 hrs per week 755 CHF per month)	Maria Dimou	Accomplished
New account portal Usability test	03 Nov 2020	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user, under-going continuous development,while ensuring top quality ...	1 month	Maria Dimou	Accomplished

CERN Academic Training web site	05 Oct 2020	The CERN Academic Training lectures contain brilliant material of leading-edge technology as well as great historical value. The lectures are open to all members of CERN personnel (in particular staff ...	one year	Maria Dimou	Accomplished
Correct automatically transcribed videos for input to MLLP	05 Oct 2020	The CERN IT Collaboration, Devices & Applications group and in particular sections Digital Repositories (IT CDA/DR) and Integrated Collaboration (IT CDA/IC), run many highly visible and popular services, which enable ...	1-3 months	Maria Dimou	Accomplished
CERN-Solid code investigation	22 Sep 2020	Sir Tim Berners-Lee invented the Web at CERN in 1989 , as a free, open, networked Internet application. The Web produced an uprecedented change to human civilisation. Yet, commercial	6-9 months	Maria Dimou	Accomplished
e-learning - Malt related - promotional short videos from recent CDA developments	14 Jan 2020	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user, under-going continuous development,while ensuring top quality ...	1 month	Maria Dimou	Accomplished
e-learning - IT Collaboration, Devices & Applications - Indico Paper Review & Edit Usability study	25 Sep 2019	The CERN IT Collaboration, Devices & Applications group (IT-CDA) hosts many highly visible and popular cross-platform services. Indico is an Open Source web application for event organisation, archival and collaboration ...	3 months	Maria Dimou	Accomplished

e-learning - IT Collaboration, Devices & Applications - Digital Repositories Usability study -1	23 Sep 2019	The CERN IT Collaboration, Devices & Applications group and the Digital Repositories' section (IT CDA/DR) in particular, run many highly visible and popular services, which enable researchers/ institutions to share and ...	1 to 3 months	Maria Dimou	Accomplished
Malt-related project: CDA Jekyll site finalisation	12 Feb 2019	Prélude project 1-13 July 2019: The new telephony project replaces analog telephones and the Microsoft Skype for business. The task is to: Test the new fixed and mobile telephony client ...	8 weeks	Maria Dimou	Accomplished
Malt-related project: New documentation testing for up-to-dateness and functionality	26 Oct 2018	The group Collaboration, Devices and Applications (CDA) in CERN IT Department provides a big number of services which are very visible to the end-user. For a complete list of services ...	up to 6 months at 50% working time (20hrs per week)	Maria Dimou	Accomplished
Malt-related project: Standard documentation workflow and conversion tools for documentation, slides etc	20 Sep 2018	Prélude project 1 August - 30 September 2019: Develop a new search engine for Indico. Details here . Supervision by Pedro Ferreira <pedro.ferreira@cern.ch>. Main project In order to standardise the ...	1 year	Maria Dimou	Accomplished
e-learning - IT Collaboration, Devices & Applications - Insert subtitles in video tutorials	04 Jun 2018	Use a free tool to convert existing plaintext files, containing the exact script of our short online e-learning videos, into .vtt files, in view of introducing subtitles. Method: Click on ...	1 month	Maria Dimou	Accomplished

e-learning - IT Collaboration, Devices & Applications - ffmpeg	30 Nov 2017	This project is accomplished (summer 2018). Documentation HERE . The CERN Document Server (CDS) is the institutional repository of CERN publications, photos and videos, organised in Collections . Specifically videos ...	2 months	Maria Dimou	Accomplished
e-learning - IT Collaboration, Devices & Applications - Indico Usability study	20 Nov 2017	Indico is an open source web application for event organization, archival and collaboration. It is developed at CERN and evolves in the IT Collaboration, Devices & Applications (IT/CDA) group The ...	6 months at 50% Full Time Equivalent	Maria Dimou	Accomplished
e-learning - video production and Academic Training video archive promotion	07 Nov 2016	This project is accomplished in the summer of 2018. See here the tool and the YouTube channel and playlists . The Academic Training (AT) video archive in CDS contains a ...	6 months	Maria Dimou	Accomplished
e-learning - short online tutorials - help to content owners	26 Oct 2016	The first 6 months of the CERN IT rapid e-learning project identified tools for recording short online videos that promote a tool, a site or a service. In this phase ...	The full month in October 2016 - unpaid internship	Maria Dimou	Accomplished
e-learning-modules	13 Jan 2016	This project aims to help IT service managers and experiment experts to record mini-videos explaining their services to the users. To do this, a desktop camera and/or the CERN IT ...	6 months - March-August 2016	maria.dimou@cern.ch	Accomplished