

CERN Academic Training website

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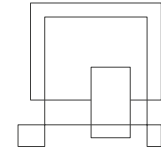
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Software Technology Engineering

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1 Requirements

The following requirements are based on the problem defined in the Project Description ^[1], mandatory elements from CERN's design guidelines ^[2] and general regulations for the CERN Logo usage ^[3].

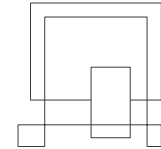
Acronyms:

CDS – CERN Document Server

ATC – Academic Training Committee

1.1 Functional Requirements

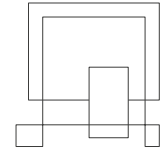
1. As a user, I want to be able to watch the lectures from this software.
2. As a user, I want to search lectures by *title*, *speaker*, *date*, *abstract*, *sponsor* and *keywords*.
3. As a user, I want the software designed responsive, so that I can view it on smaller screens too, like on tablet and/or mobile devices. Since it is not possible to test it on every single device in the world, it is important to have responsive layout on some of the most popular devices (like iPhone 8, Samsung Galaxy S8, Google Pixel and Nexus 7).
4. As a user, I want to be able to use the software from multiple browsers: Google Chrome, Firefox, Samsung Internet, Safari, Microsoft Edge, and Opera.
5. As a user, I want to be able to contact the stakeholders (ATC members).
6. As a user, I want to be able to send suggestions for future lectures to the stakeholders.
7. As a user, I want to see the details of each lecture, i.e., *title*, *speaker*, *date*, *event details*, *abstract* (description of the lecture), *duration* and *sponsor*.
8. As a user, I want to be able to see who the members of the ATC are.
9. As a user, I want to see the lectures chronologically on the Main Page, showing the most recent first.



10. As a user, I want to see most recent first also for the search results.
11. As a user, I want to easily find definitions, the programme and obvious links like the Contact Us without much searching and scrolling.
12. As a user, I want to see the number of results after search.
13. As a user, I want to see a message displayed when no results are found after a search.
14. As a user, I want to be able to Share lectures from this software.
15. As a user, I want to add lectures to Favorites.
16. As a user, I want to be able to Like the lectures.
17. As a user, I want to access lists of Favorites and Liked lectures.
18. As an administrator, want the lecture harvesting to be automatic, performant (compare video loading speed on the site and in CDS; ensure no overhead appears due to the site views/scripts), and persistent to eventual CDS changes.
19. As an administrator, I want to be warned if the harvesting fails.
20. As an administrator, I want to be able to add additional details from the event of the lectures (Indico ^[3]), if it is not present already in the CDS.
21. As an administrator, I want a descriptive documentation site for future maintenance.

1.2 Non-Functional Requirements

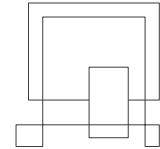
1. The software must be publicly accessible on the internet.
2. There must be a logo specific to THIS software that gives the brand of the ATC.
3. The Academic Training lectures must be accessible separately from the collection on CDS.
4. The software must display mixed results. While the majority of the lectures are recorded and stored as videos, the old records are archived in PDFs, so they must also be managed.
5. The software must use cold colors (ex. blue, black, white), as this is the general color scheme of CERN ^[4].
6. The site views, links and navigation must be user-friendly.



7. Despite the fact the CERN is bilingual (French and/or English), this software must display the details of lectures in English.
8. The software must have the domain name `.cern.ch`.
9. In order to ensure future maintainability, the software must make use of technologies in which CERN and the community have expertise.
10. The CERN toolbar must be displayed at the top of the software in the standard way, including a link to the homepage of CERN ^[5], to Sign In and to the CERN Directory.
11. The CERN logo ^[6] should always be used in the footer and be an active link to the homepage of CERN.
12. The CERN logo should *never* be used at the top left corner or in the header.
13. The CERN logo should *not* be animated or have states or scripted interactions.
14. The CERN logo should be *no* less than 60px wide, and its correct proportions must be respected.

Note:

1. Regulations for optional CERN elements are not stated here.
2. The stakeholders present new requirements until the end of the development.



2 Source of information

1. CERN Academic Training website – Project Description. [online] Available at: <<https://it-student-projects.web.cern.ch/projects/cern-academic-training-web-site>> [Accessed on 5 May 2022].
2. Guidelines for CERN websites. [online] Available at: <<https://design-guidelines.web.cern.ch/guidelines/guidelines-cern-websites>> [Accessed on 5 May 2022].
3. Indico – Academic Training Lecture Regular Programme. [online] Available at: <<https://indico.cern.ch/category/72/>> [Accessed on 5 May 2022].
4. The CERN Colours. [online] Available at: <<https://design-guidelines.web.cern.ch/guidelines/colours>> [Accessed on 5 May 2022].
5. The Homepage of CERN. [online] Available at: <<https://home.cern>> [Accessed on 5 May 2022].
6. The CERN Logo. [online] Available at: <<https://design-guidelines.web.cern.ch/guidelines/logo>> [Accessed on 5 May 2022].