

# **CERN Academic Training website**

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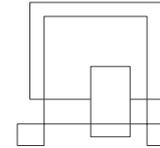
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# 1 Requirements

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

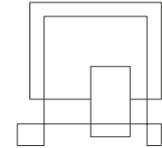
## Acronyms:

**CDS** – CERN Document Server

**ATC** – Academic Training Committee

## 1.1 Functional Requirements

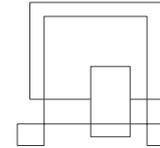
1. As a user, I want to see the lectures displayed by *thumbnail*, *speaker* and *date*, so that I can watch the lecture that I want.
2. As a user, I want a search bar, so that I can search lectures by *title*, *speaker*, *date*, *abstract*, *sponsor* and *keywords*.
3. As a user, I want a *Contact* button that navigates to the email address of the stakeholders (ATC members), so that I can contact them, give feedback or send a suggestion for future lecture.
4. As a user, I want an *Events* button, so that I can access and see the Full programme of the Academic Training Lectures (Indico <sup>[3]</sup>).
5. As a user, I want a button that navigates to an *About Page*, so that I can see who the members of the ATC are.
6. As a user, I want the *title*, *speaker*, *date*, *event details*, *abstract* (description of the lecture), *duration* and *sponsor* displayed for each lecture, so that I can see the details of it.
7. As a user, I want the lectures displayed chronologically on the *Main Page*, so that I can see the most recent first.
8. As a user, I want the lectures displayed chronologically on the *Search Result Page* too, so that I can see the most recent first.



9. As a user, I want to find definitions, the programme, and obvious links like *About*, *Contact*, and *Events*, so that I do not have to search or scroll for it for too long.
10. As a user, I want to see the number of results after each search, so that I know how many lectures were found for my search term.
11. As a user, I want to see a message displayed when no results are found after a search, so that I know, I must change the search term, and look for something else.
12. As a user, I want to see the search bar permanently, so that I can search for a lecture whenever I want.
13. As a user, I want a *Share* button, so that I can share the lectures.
14. As a user, I want a *Favorites* button that saves lectures to a list, so that I can revisit these lectures if I want to.
15. As a user, I want a *Like* button, so that I can mark the ones that I like.
16. As an administrator, I want to be warned if the harvesting fails, so I can avoid inconvenient surprises from deployment.
17. As an administrator, I want to be able to add additional details from the event of the lectures (Indico), if it is not present already in the CDS, so that I do not miss details that are needed by the stakeholders.
18. As an administrator, I want a descriptive documentation site for future maintenance, so that I can change/improve the code if necessary.

## 1.2 Non-Functional Requirements

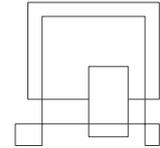
1. The software must be publicly accessible on the internet.
2. There must be a logo specific to THIS software that gives the brand of the ATC.
3. The Academic Training lectures must be accessible separately from the collection on CDS.
4. The software must display mixed results. While the majority of the lectures are recorded and stored as videos, the old records are archived in PDFs, so they must also be managed.



5. The lecture harvesting should 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.
6. The software must use cold colors (ex. blue, black, white), as this is the general color scheme of CERN <sup>[4]</sup>.
7. The site views, links and navigation must be user-friendly.
8. Despite the fact the CERN is bilingual (French and/or English), this software must display the details of lectures in English.
9. The software must have the domain name *.cern.ch*.
10. The software must be designed responsive, so that it can be viewed 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).
11. The software must be usable from multiple browsers: Google Chrome, Firefox, Samsung Internet, Safari, Microsoft Edge, and Opera.
12. In order to ensure future maintainability, the software must make use of technologies in which CERN and the community have expertise.
13. The CERN toolbar must be displayed at the top of the software in the standard way, including a link to the homepage of CERN <sup>[5]</sup>, to Sign In and to the CERN Directory.
14. The CERN logo <sup>[6]</sup> should always be used in the footer and be an active link to the homepage of CERN.
15. The CERN logo should *never* be used at the top left corner or in the header.
16. The CERN logo should *not* be animated or have states or scripted interactions.
17. 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].