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## FENTEC - Functional ENcryption TEchnologies

### D2.1 Public web Presence

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## List of Acronyms

Abbreviation / Acronym	Description
CMS	Content Management System
DoA	Description of Action
Dx.y	Deliverable number y belonging to WPx
EC	European Commission
FE	Functional Encryption
KoM	Kick off Meeting
LI	LinkedIn (e.g. LinkedIn.com)
Mx	Month number x (measured from the project start).
TW	Twitter (e.g. Twitter.com)
URL	Uniform Resource Locator
WebDav	Web Distributed Authoring and Versioning
WP	Work Package
Yx	E.g. Y1, Y2 and Y3. Year 1, 2 and 3 of the project

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## Executive Summary

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This document provides an overview of the first version of the FENTEC website and its design. The website will serve as a documentation management system which includes public information about FENTEC project [1] and its results, and also a private section, based on ownCloud [5], where partners can communicate and share project related information to each other. This private area of the FENTEC website allows consortium members to manage the knowledge generated by the project (files, documents, promotional material, etc.) and it also serves as collaborative work environment for project partners.

This report describes different aspects of the website, such as the characteristics, the technology used, security and maintenance aspects, and some structural facets. Screenshots are included in order to help the reader in better understanding the chosen approach and the design process.

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# 1 Introduction

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## 1.1 Purpose of the document

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The present deliverable is a short report accompanying the real deliverable of the project, which is the FENTEC website [2]. It is important to note that this initial version of the FENTEC website will evolve and keep up to date to better disseminate the project information and results.

This document shows the main functionalities and features of this website in an easy and understandable way. This report also offers a short description of the FENTEC website from different perspectives, such as functionality, technology, security, access, navigation, and structure.

## 1.2 Structure of the document

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This document is structured in three sections:

- the first section is this introduction
- the second section gives an overview of different general aspects of the FENTEC website, as well as some details explaining the public side of FENTEC website and the main characteristics of the private side of the FENTEC website
- the third and last chapter concludes and summarises this report

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## 2 The FENTEC Website

### 2.1 Objective

The FENTEC website is the main communication tool of the project, as well as a private content repository of the project.

The website provides all the information about the project that is relevant to the public, as well as the main results obtained. In the private section, beneficiaries can work collaboratively and share relevant information.

The FENTEC website will be constantly updated with the content provided by all the FENTEC partners.

### 2.2 Characteristics

The FENTEC site is a web-based tool with the following key features:

- Web based interface
- Advanced search and retrieval features
- Content structured as a file system
- Centralized security and identity management
- Role based access
- Collaborative features
- Based on open source technologies
- Fulfils current industry standards
- Management of both structured and unstructured information of any kind, support of multiple formats
- Storage of electronic documents
- File history tracking
- Document versioning control

The initial version of the FENTEC website is available in this URL: <http://www.fentec.eu/>.

### 2.3 Security and Maintenance

The FENTEC website is hosted and maintained by ATOS, responsible for the communication task of the project.

The main features of the infrastructure are:

- Service availability 24x7
- Storage size on demand regarding project's needs
- High performance and scalable resources on demand
- Ubiquitous user's web access
- Centralized administrative support
- Backup and restoration services
- Security services.

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All these features guarantee an efficient and trusted service of the FENTEC website for the whole duration of the project.

The website is subject to the ATOS Information Security Policy, aiming at safeguarding the confidentiality, integrity, availability, authenticity and non-repudiation of information and information systems. It is based on an internationally accepted security standard (ISO27002, Code of Practice for Information Security Management) [4].

The policy applies to all intellectual and physical forms of information assets, whether owned, used or held in custody by ATOS. This policy is mandatory for the security of ATOS internal and external business processes and applies to all staff, contractors and consultants throughout the ATOS organization.

## 2.4 The FENTEC Public Website side

### 2.4.1 Technology

The FENTEC website [2] is based on Drupal [3]. Drupal is a content management system (CMS) which provides a way to allow regular users to maintain and update a site's content without involving technical users in the process, all along with advanced features and functionalities. This is a web-based document management application that uses standards and open source technologies.

Several reasons justify the selection of Drupal:

- Drupal is the first platform for web content management among global enterprises, governments, higher education institutions, and NGOs
- Drupal is a digital experience management system to drive web content and multichannel, personalized experiences that can help FENTEC to connect with users, customers and visitors wherever they are
- Drupal is flexible and highly scalable: it publishes a single web site or shares content in multiple languages across many devices
- Drupal is secure CMS and an application framework that stands up to the most critical internet vulnerabilities in the world; it is mature and stable
- Drupal helps technology and business leaders to transform content management into very valuable digital solutions; The offered tools make easy for content creators to create content
- The software is regularly updated and maintained by a developer community. In fact, the community behind Drupal is one of the most innovative open source communities
- The team already had previous experience with the solution in other research projects

### 2.4.2 Content and navigation

Visitors accessing the FENTEC website [2] enter directly to the home page, as shows the image below:

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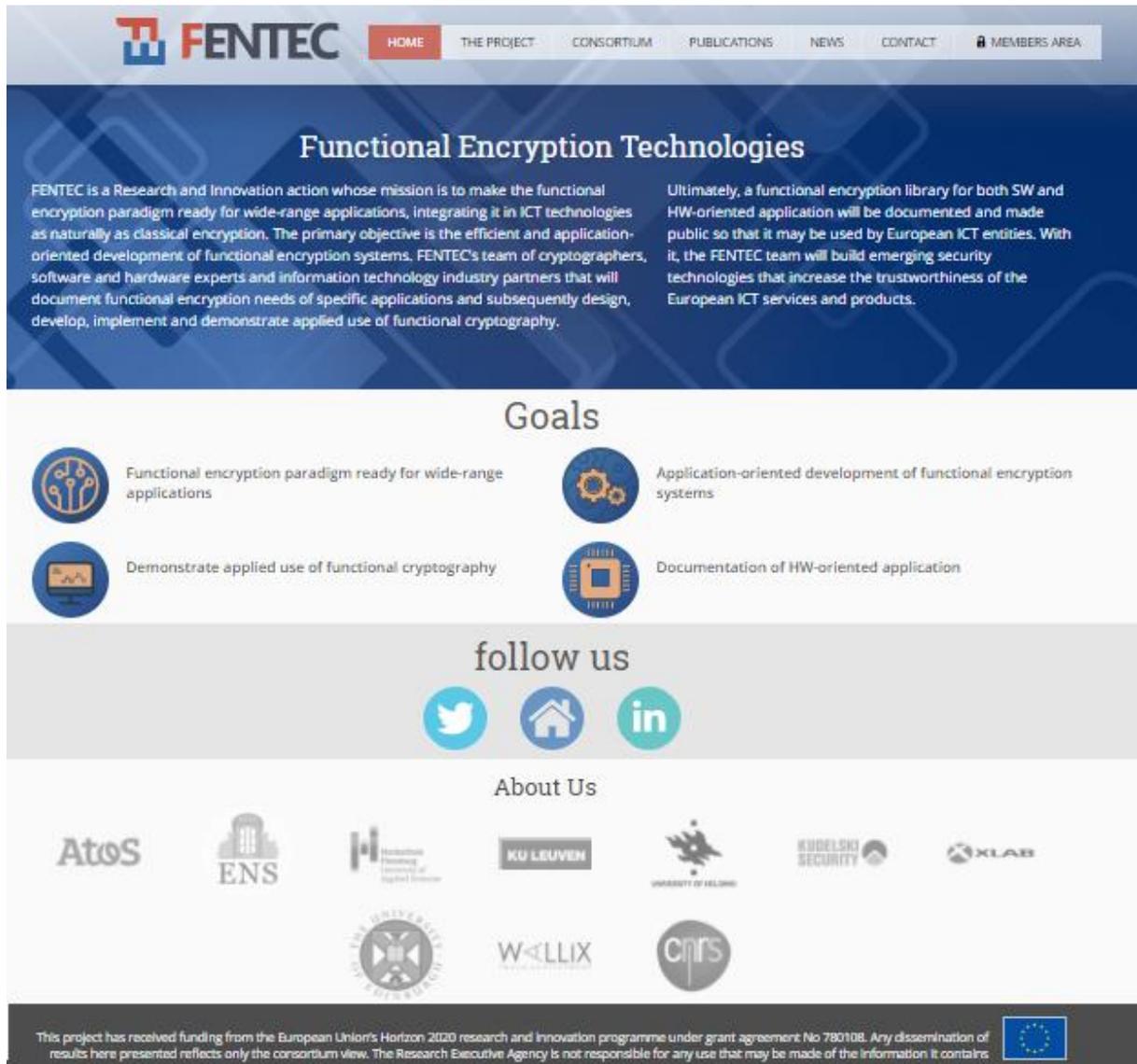


Figure 1: FENTEC website

The structure of the home page is showed in the next image:

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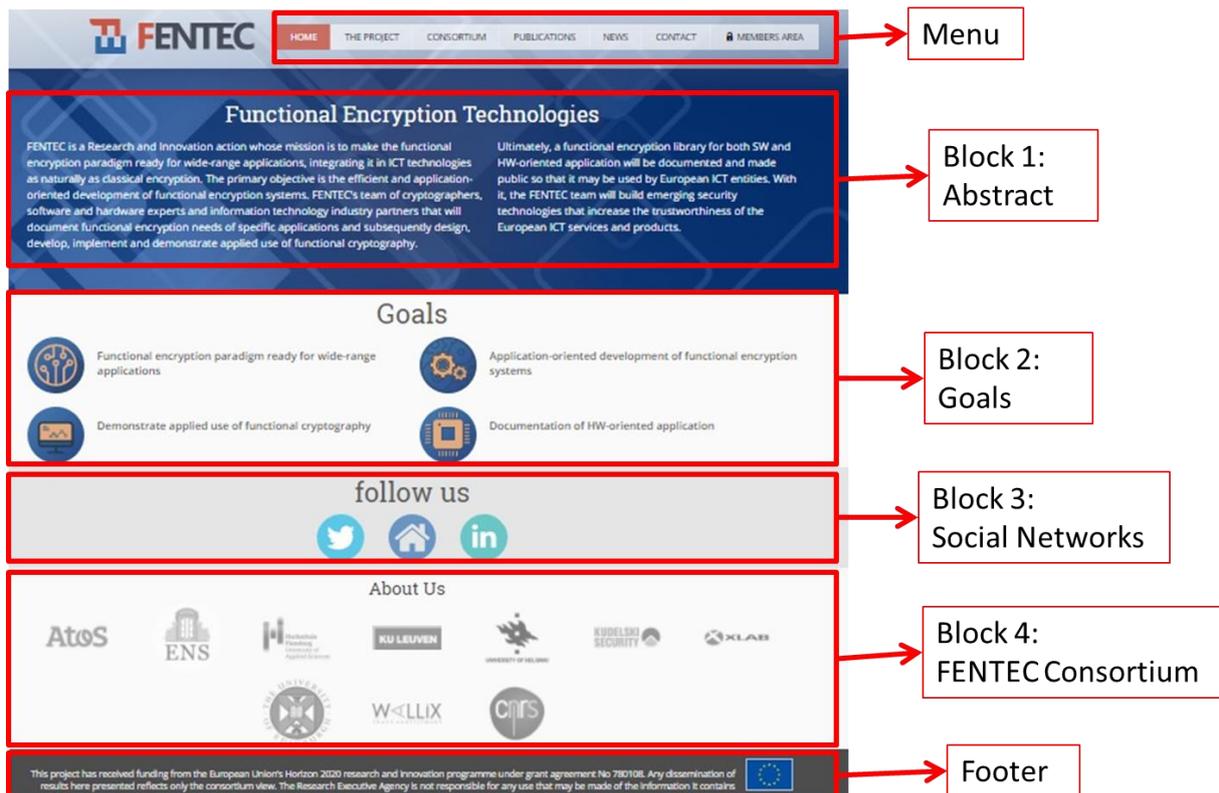


Figure 2: FENTEC website Structure

In the upper part of the webpage a menu with six different buttons appears, as can be seen in the image below:



Figure 3: FENTEC website upper menu

These buttons give access to different subsections:

- Home: By clicking here, users are redirected to the home page from wherever they were
- The Project: This link provides access to all general information related to the FENTEC project: Objectives, Structure or Use cases is information available in this section



Figure 4: FENTEC website: The Project

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- Consortium: Visitors can know more about FENTEC beneficiaries by clicking in this link; It is possible to have more information related to a partner by clicking on its name

The screenshot shows the FENTEC website's consortium page for Atos Spain S.A. The header features the FENTEC logo and a navigation menu with options: HOME, THE PROJECT, CONSORTIUM, PUBLICATIONS, NEWS, CONTACT, and MEMBERS AREA. The main heading is 'Atos Spain S.A'. Below this is the Atos logo and a table with the following information:

<b>Acronym:</b>	ATOS
<b>Country:</b>	Spain

Below the table is a detailed paragraph about Atos: 'Atos is a global leader in digital transformation with approximately 100,000 employees in 72 countries and annual revenue of around € 12 billion. The European number one in Big Data, Cybersecurity, High Performance Computing and Digital Workplace, The Group provides Cloud services, Infrastructure & Data Management, Business & Platform solutions, as well as transactional services through Worldline, the European leader in the payment industry. With its cutting-edge technologies, digital expertise and industry knowledge, Atos supports the digital transformation of its clients across various business sectors: Defense, Financial Services, Health, Manufacturing, Media, Energy & Utilities, Public sector, Retail, Telecommunications and Transportation. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, Unify and Worldline. Atos SE (Societas Europaea) is listed on the CAC40 Paris stock index.'

At the bottom of the profile section, there is a 'Links' field with the URL <http://www.atos.net>. A footer banner contains the text: 'This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 780108. Any dissemination of results here presented reflects only the consortium view. The Research Executive Agency is not responsible for any use that may be made of the information it contains' and the European Union flag.

Figure 5: FENTEC website: Consortium, ATOS example

- Publications: All public documentation will be available in this subsection of the FENTEC website. Public deliverables, press releases, newsletters, etc. are accessible from this screen

The screenshot shows the FENTEC website's publications page. The header features the FENTEC logo and a navigation menu with options: HOME, THE PROJECT, CONSORTIUM, PUBLICATIONS (highlighted), NEWS, CONTACT, and MEMBERS AREA. Below the navigation menu are three sub-sections: Deliverables, Other Publications, and Press Releases. The main heading is 'Publications'. Below this are three large buttons with icons and arrows:

- Deliverables →
- Press Releases →
- Other Publications →

A footer banner contains the text: 'This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 780108. Any dissemination of results here presented reflects only the consortium view. The Research Executive Agency is not responsible for any use that may be made of the information it contains' and the European Union flag.

Figure 6: FENTEC website: Publications

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- News: In these subsections, relevant news related to FENTEC project are shown; events where FENTEC project is present, or any other news related to the topic addressed by FENTEC project are susceptible to appear here



Figure 7: FENTEC website: News

- Contact: Users can ask for more information about FENTEC by using the form contained in this link

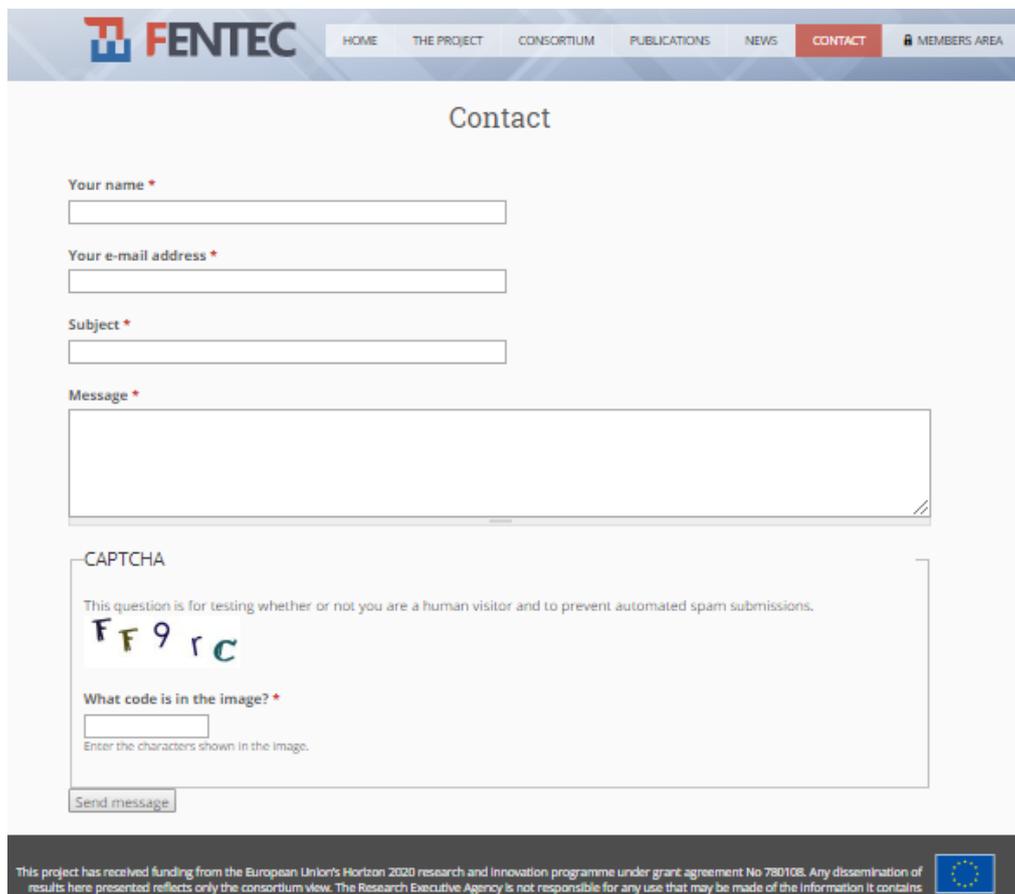


Figure 8: FENTEC website: Contact

- Members' area: This button provides access to the private side of FENTEC website, based on ownCloud solution. More details about this sub-section are explained in the next chapter

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Figure 9: FENTEC website: Members access

In the centre of the screen, four blocks give a general overview about what is FENTEC project; in the first block, shown in figure below, the abstract of the project is shown.



Figure 10: FENTEC website block 1: Abstract

The second block is dedicated to the main goals of the project, as indicated in figure below:



Figure 11: FENTEC website block 2: Goals

In the third one it is possible to find the links to the different social networks where the FENTEC project is present: LinkedIn and Twitter are the current ones where FENTEC project exists, but it expected to have new social networks account in the near future of the project.

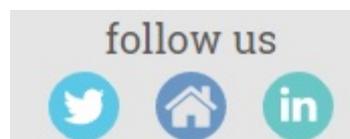


Figure 12: FENTEC website block 3: Social Networks

The last block includes the logos of the 9 participants and one third party which form FENTEC project. By clicking on each logo, additional information of the selected partner can be found.

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Figure 13: FENTEC website block 4: Consortium

Finally, at the bottom of the page, in the footer, a paragraph informing that FENTEC is a collaborative project which has received funding from the European Commission is indicated, together with the grant agreement number signed with the Commission.



Figure 14: FENTEC website footer

## 2.5 The FENTEC Private Website area: Content and navigation

### 2.5.1 Technology

The FENTEC private side is based on ownCloud version 8.0 [5]. ownCloud is a suite of client-server software for creating file hosting services and using them.

The ownCloud server is written in the PHP [6] and JavaScript [7] scripting languages. For remote access, it employs sabre/dav [8], an open-source WebDAV server. ownCloud is designed to work with several database management systems, for example MySQL [9].

Several reasons justify the selection of ownCloud:

- Cross-platform functionality: it relies on a web client that allows accessing the information with no software installation required. It provides access to data through a web interface, sync clients or WebDAV while providing a platform to view, sync and share across devices easily. The solution is compatible with the most popular browsers
- Usability. The interface is simple and easy to navigate, what saves time on operation and training. It features file, contacts and calendar sync to ease the interaction, and includes a search engine. In addition, it provides help support in English
- Collaboration. It provides different functionalities that ease the partner collaboration. This includes document versioning, history tracking, process definition, email notification, and subscription. ownCloud also provides safe, secure, and compliant file synchronization and sharing solution on servers that you control
- Previous experience with the solution in other research projects
- The software is regularly updated and maintained by a developer community

### 2.5.2 Content and navigation

Accessing to the private zone of the FENTEC website is done by clicking on the “MEMBERS AREA” button which appears on the upper menu of the screen. Once clicked on the button, credentials are required to access to this part of the website, as only FENTEC consortium members has access to this

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private side. Credentials consist of a pair “username”, “password”, and can be requested to the Atos coordination team. The access is role-based. When publishing this report two roles are defined:

- **User:** This role is mandatory for all regular users to access ownCloud. This role allows partners to create, upload, update, delete, and share files in the working space. Users’ action is normally limited to certain folders. Permissions are assigned to each folder of the repository structure at the user account creation. This means that different folders could have different permissions. Permissions can be individually defined per user. For instance, there are some folders only accessible to the project coordinator to interact with the project reviewers. Account quota for users can also be limited according to the necessity of the project
- **Admin.** This role has administrator privileges, seeing any folder and doing any operation without restrictions. The administrative role is held by ATOS, the partner in charge of the internal website

After login, users are directed to the FENTEC internal repository front-end. By default, the ownCloud Web interface opens to the Files page.

The ownCloud user interface contains the following fields and functions:

- **Application View.** This is the main central field in the ownCloud user interface. This field displays the contents or user features of the selected application in the Apps Selection Menu
- **Apps Selection Menu.** This menu is located in the upper left corner. By default, it shows the Files page. By clicking on the arrow icon, a dropdown menu is opened to navigate through various available apps
- **Apps Information field:** This Located in the left sidebar, this provides filters and tasks associated with your selected app. In the example, For the File page example, a special set of filters is available for quickly finding files
- **Navigation Bar:** This bar is located over the Application View. It provides a type of breadcrumbs navigation that enables the user to migrate to higher levels of the folder hierarchy up to the root level (home). It also includes buttons that enables creating new files, new folders, or uploading files
- **Search field.** It is indicated with a magnifier icon in the upper-right hand corner to search for files
- **Personal Settings menu.** This menu allows user to manage their account settings and passwords, login, and access to an online user manual

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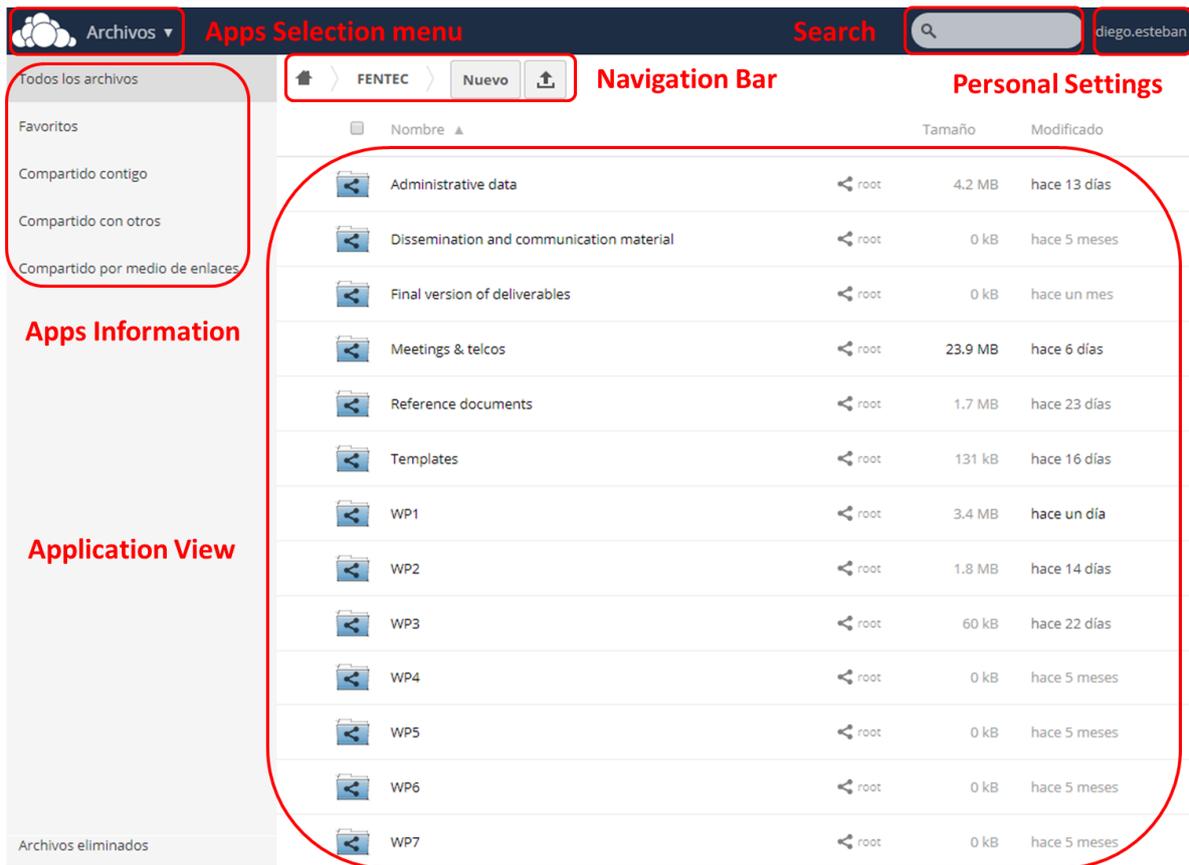


Figure 15: FENTEC members side front-end

The structure of the private side of the FENTEC Website is defined by a folder tree. The folder tree is organised by the seven work packages of the project. Each folder is in turn broken down into a subfolder structure, containing at least the deliverables and the drafts generated in their elaboration. Other required folders are possible, always with a descriptive name of its content. Apart from these WP folders, there are other folders which include information related to the management and dissemination activities of the project, meetings, including the ones arranged by phone, reference documents which may be of help for the development of the project and templates used for the official deliveries of the project.

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## 3 Conclusions

The FENTEC website has been developed considering all the aspects that form a good document management system, such as usability, multi-platform, collaboration functionalities, maintenance and security.

This website is a good place to share the information regarding the FENTEC project [1] and is also a useful tool to disseminate the project results.

Finally, it is important to mention that this may not be a final version of the website, but a preliminary set-up constrained by the submission date. As any other collaborative environment, the FENTEC website is intended and expected to evolve in order to be adapted to the project's needs and it will be constantly updated with the content provided by all the FENTEC partners.

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