USR1. Portal is a cross-browser informative & communicative medium, and a simulation of a physical store maintaining of most popular transactions.

USR2. Users are assisted to make effective use of the portal, familiarized with policies and comply on emerging issues.

USR3. Users accommodated to make use of increased portal functionality on a simple subscription. Purchase activity and relevant routines emerges customer's validation.

USR4. All hosted elements such products, articles, discussions can be displayed explicitly and queried by all users, empowered on the latest technology artifacts.

USR5. Users are motivated to login and purchase at any time, while for the second case have to initially validate their identification.

USR6. Users obtain privacy and a high level of security environment on emerging cases.

USR7. Internal users are in faculty to maintain the display of all published info on the site.

USR8. Internal users supervise communicative mediums and intercept to modify content and alert users on demand.

USR9. Transactions of the system are indexed and searchable by authorities on a way to context conclusions.

Functional Requirements Table

CODE	DESCRIPTION	USER REQUIREMENTS CODE
FNR100.	Implementation of the application on a CMS brand platform will resolve different browsers inefficiency issues.	USR1.
FNR101.	Maintain database content of articles published by the employees of the corporation.	USR1.
FNR102.	Maintain database content of reviews for specific products and comparisons between products	USR1.
FNR103.	Maintain RSS feed services to content and publish technology information	USR1.
FNR104.	Product descriptions supply informative context	USR1.
FNR105.	Supportive email communication forwarded for response to authorized personnel	USR1.
FNR106.	Html form incorporated on the system providing 'text' & 'textarea' inputs, for users to apply comments, and 'submit' & 'escape' buttons to trigger functions respectively.	USR1.
FNR107.	Enter discussion forums and communicate with other registered members	USR1.
FNR108.	All users comments on discussions are accompanied with a reply button, thus acquire complements from other registered members.	USR1.
FNR109.	Response on comments will trigger alert email messages to users registered email addresses.	USR1.
FNR110.	Enter discussion forums and post threads for communication	USR1.
FNR111.	Users have the ability to post a new tread submitting a discrete button.	USR1.
FNR112.	Posting a new thread, the system provide header text input, 'text-area' input for comments and a submit button for publishing.	USR1.
FNR201.	Navigation bar that labels the most common category domains as:	USR2.

	▪ Home ▪ Products ▪ Articles ▪ Reviews ▪ Forum ▪ Basket ▪ Company ▪ Contact All buttons - except products - coordinates the user to a new address and refreshed new display.	
FNR202.	'Products' button from the navigation menu - while clicked - triggers a pop-up menu, complemented with distinct product domains labels, on the same page. The navigation menu maintains position on any state of the portal's exploration.	**USR2.**
FNR203.	Products - regarded - popup menu, while clicked on its contents, generates new pages within the context of the selected domain products.	**USR2.**
FNR204.	Discreet button - close to the navigation bar - announces the 'site map' off the portal and redirects to a new page that hosts an expandable tree-view textual display, mapping the portal's folder structure, and maintain active links -while clicked- to all pages.	**USR2.**
FNR205.	Discreet textual stream in cascading 'folder - slash' format that illustrates the file stream up to the current location of the user. Text also provides active links to pages.	**USR2.**
FNR206.	Help buttons on pages that complex interaction emerges.	**USR2.**
FNR207.	Help button next to advanced search function that describe the process of appending multiple filtering 'key-words' for research. Pop up message on a textual descriptive context.	**USR2.**
FNR208.	Help button for the process of creating and editing a profile on forum discussions. Generates a pop up message within textual descriptive context.	**USR2.**
FNR209.	Help button for the process of applying an online purchase using a credit card option. Redirects to a new page with descriptive textual & visual context.	**USR2.**
FNR210.	Help button for making effective use of the cart button. Help button for making effective use of the calendar potentials	**USR2.**

FNR211.	The users should be informed on local and formal restrictions for the case where it is emerging and submit their acceptance with those.	**USR2.**	
FNR212.	While entering forum discussions the users should comply with referencing and advertising policies	**USR2.**	
FNR213.	While entering a purchase process the costumer should informed on local regulations	**USR2.**	
FNR301.	Login process is implemented within a simplistic process, providing two text inputs, in request of the users email address, password to enter the system and CAPTCH image recognition. The email address is validated on user's applied email address.	**USR3.**	
FNR302.	The system sends a link to the users email and prompts to follow in order to register on the systems database.	**USR3.**	
FNR303.	On the return the user is suggested to input a checkbox in order to obtain newsletter communication with the enterprise.	**USR3.**	
FNR304.	The login area retains visual on all portal pages and escapes only while the user logs. Login can be generated on the same page omitting redirection to another display, just providing two text inputs.	**USR3.**	
FNR305.	Displaying products on single or multi mode the users have the potential to decide and instantly place products on basket for purchase.	**USR3.**	
FNR306.	On single mode each product is accompanied with a cart button	**USR3.**	
FNR307.	On multimode - whether after a database searching presentation, filtered presentation, comparison mode - each product is followed by a cart button.	**USR3.**	
FNR401.	Users empowered to invoke portals advanced functions on a single subscription. ▪ RSS feeds ▪ Basket ▪ Personalized access ▪ Forum profile ▪ Calendar events While for the case of purchase, functions extends to ▪ Order monitoring	**USR4.**	

FNR402.	RSS feeds are generated by users on applying a checkbox input	**USR4.**
FNR403.	RSS feeds contained on a distinct area of the portal, provide brief description of the articles and prompt users to extend their display with a 'read more' link at the end of the description	**USR4.**
FNR404.	On 'click' the user is directed to a new page totally in regard to RSS content, providing headers and brief descriptions of the context.	**USR4.**
FNR405.	RSS feeds are searchable on a simple input field that users apply specific text strings and find matches on portal or web services	**USR4.**
FNR406.	RSS feeds can filter content and applied given specific filtering inputs, while this functionality generated only be subscribed users	**USR4.**
FNR407.	Basket function can be delivered to all users	**USR4.**
FNR408.	Products added to basket on single 'click' of the proportional button.	**USR4.**
FNR409.	Multiple products can be added to the basket	**USR4.**
FNR410.	Users retain a display area that informs about the number of products existing on the basket.	**USR4.**
FNR411.	Basket retains a distinct area that users can explicitly view the products added to the the basket, in detail.	**USR4.**
FNR412.	The page underneath "Basket" label is total in regard to the basket functionality and accommodates users to interact with the products in several ways like: ▪ Display a total price of the purchase (containing more than one product) ▪ Remove a product from the basket on a checkbox and the according 'remove' button ▪ Clear the basket completely ▪ Choose specific products (checkbox) and calculate the price	**USR4.**
FNR413.	Users can personalize their profile on forum discussions on the following means: ▪ Upload and profile a image in preference	**USR4.**

	- Use their favorite font families and colors in a variety - Modify text - Apply a Sign text/image on the end of their comments - Apply personal information next to their avatars	
FNR414.	Calendar events are generally displayed by all users provided with the portals selected events	**USR4.**
FNR415.	Subscribed users can generate personal calendar events of preference	**USR4.**
FNR416.	Registered users can monitor of their purchase	**USR4.**
FNR417.	Users while purchasing products are assigned to unique alphanumeric of the order by the system that is announced on to them.	**USR4.**
FNR418.	The system maintains a distinct page area that the users can monitor of the state of their purchases. Given the unique code, users can be informed for the state of their order.	**USR4.**
FNR501.	The system maintains functionality to query data that are hosted on the databases and present to customers like: - Reviews & Articles - Products - Forum discussions - RSS feeds	**USR5.**
FNR502.	Reviews & Articles are searchable and provide filtered and additional indexing on main categories such as: - Reviews / Articles - Portal / Web - Year - String Indexing on their labeled page	**USR5.**
FNR503.	Entering the Reviews & Articles page the system displays brief content steams of latest articles and the same for	**USR5.**

	reviews, while the two are labeled and separated clearly	
FNR504.	Products are searchable on the portal and provide extended categorized indexing on a standalone page. Domains of interest are : ▪ Product String Name indexing ▪ Domain category (PC, tablet, laptop etc) ▪ Brand Name (Toshiba etc) ▪ Product Category (Hardware etc) ▪ Assigned code on the portal ▪ Specifications of products (Hard Disk 500gb etc) ▪ Price domain (50€ -100€ etc)	**USR5.**
FNR505.	Entering the Products page the system displays images of latest product releases in a blended non categorized way, followed by short descriptions. All provide 'read more..' links that directs a standalone detailed description of the product.	**USR5.**
FNR506.	All products on a standalone description provide direct links to the official brand page	**USR5.**
FNR507.	All products on a single/multi/comparison descriptive mode are accompanied with an availability indication.	**USR5.**
FNR508.	Forum discussions are searchable on the labeled page given the following input: ▪ String Indexing (ipad2 etc) ▪ Product category (Software etc) ▪ Domain category (PC, laptop etc)	**USR5.**
FNR509.	RSS feed described in FNR405 – FNR406	**USR5.**
FNR601.	All internal users can enter the site without any restrictions as common external users and generate product (and other) researches and availability checking.	**USR6.**
FNR602.	To make use of advanced functions the users should login the system.	**USR6.**
FNR603.	The system 'sees' internal users as common users, though	**USR6.**

			USR6.
		they are gradually assigned extended privileges.	
	FNR604.	Internal users can interact on the background with the portal provided with the powerful features of CMS frameworks to modify the content published. In detail internal users can CREATE/REMOVE/MODIFY: ▪ Articles & Reviews ▪ Products ▪ Text & Images ▪ Modify prices ▪ Modify products availability ▪ Upload text links	
	FNR605.	Internal users are empowered to address changes to the original pages of the portal on a web based environment and publish results.	USR6.
	FNR606.	Internal users are accommodated with all textual & visual design facilities while working on the web based environment.	USR6.
	FNR607.	Internal users maintain the power to display in accuracy the results made on the portal before publish.	USR6.
	FNR608.	Internal users maintain the ability to effectively register new products on the portal's database and/or increase stock quantities.	USR6.
	FNR701.	Internal users are in capacity to supervise the forum communication and apply local and general policies for the case of being violated. The activity can be generated on: ▪ Native reading of users comments ▪ Filtering of specific keywords (brands etc)	USR7.
	FNR702.	Internal users are privileged to gain control of the forum users comments and modify content on demand.	USR7.
	FNR703.	Internal users are privileged to have access on email addresses of forum participants and send messages for compliance with the regulations	USR7.
	FNR704.	Internal users are in capacity to disengage of users access with the forum discussion for not complied with the public	USR7.

		regulations	
	FNR705.	Internal users maintain ability to interact with the forum discussions and apply comments, obtaining all facilities that the common users do.	**USR7.**
	FNR706.	Internal users are empowered to 'upgrade' of users profile status while their interaction with the discussion forums ensures certain conditions	**USR7.**
	FNR801.	Internal users are privileged to perform extended metrics on the system in order to evaluate certain domain outcomes. Domains of interest are the following: ▪ Measure purchase traffic of given costumers ▪ Measure given products sales ▪ Measure total of purchases and relate to months, years, local areas etc ▪ Measure employees sales indexes	**USR8.**
	FNR802.	Internal authors maintain position to approve or reject of internal users requests. Examples : ▪ Request for ordering new products ▪ Requests for updating warehouse stock quantities ▪ Requests to submit discount prices on customers	**USR8.**
	FNR803.	Internal authors maintain the ability to manipulate internal users profiles and modify mode privileges	**USR8.**

Non Functional Requirements Table

CODE	DESCRIPTION	Category
NONFR1.	▪ The portal's text shall be provided for the Greek and English language ▪ The system shall provide accessible visual keyboard for all inputs	**Accessibility Requirements**
NONFR2.	Text provided in search inputs shall generate list results in a 'drop-menu' format, in a way to escape erroneous dictionary	**Accuracy Requirements**
NONFR3.	▪ Interaction with portal work on a 24/7 basis ▪ The system shall be accessible for 99.99% of tries to reach. ▪ The system shall be protected by a firewall while on internet ▪ The user shall require an ID & Password before move to restricted areas	**Availability Requirements**
NONFR4.	All interaction processes	**Backup and Recovery Requirements**
NONFR5.	The system is developed in capacity to store 500.000 users	**Capacity Requirements**
NONFR6.	Customers data can be exported to XML format	**Compatibility Requirements**
NONFR7.	Up to 2000 concurrent users can be hosted by the system	**Concurrency Requirements**
NONFR8.	In case of sudden malfunction of the system all data applied by users shall be deleted and reversed	**Error-Handling Requirements**
NONFR9.	▪ Users must informed and confirm that the system will store files of their transactions for 5 years on. ▪ The system shall mark content with the proper copyright and notices trademarks ▪ The system shall maintain an online section describing all necessary legal disclaimers ▪ Legal disclaimer info shall be accessible from all pages on the portal	**Legal and Regulatory Requirements**
NONFR10.	Costumers from Europe will display currency in euro (€) format but for USA will display in dollars ($)	**Localizability Requirements**
NONFR11.	Legislative changes forced to be made before specific deadlines shall incorporated to the portal 4 months before the deadlines	**Maintainability Requirements**
NONFR12.	During a search activity applied by customers the	**Performance**

	results should display within a limit of 1.5 seconds	**Requirements**
NONFR13.	Inputs provided by customers shall be recorded to the nearest second.	**Precision Requirements**
NONFR14.	Up to 5 extensive modules may added to the portal within each year	**Scalability Requirements**
NONFR15.	- Only authorities of the portal shall access the personal data of the users - All Security policies shall be documented online	**Security Requirements**
NONFR16.	Only users who have made at least one purchase from the portal will have access to company's support center from 09:00 to 17:00 daily and Saturdays – excluding public holidays.	**Supportability Requirements**
NONFR17.	The portal may apply up to 3,000 updates per working day.	**Throughput Requirements**
NONFR18.	- The system shall require no special training to use it and shall be manageable after 3 hours of continuous usage. - The system shall maintain a consistent display to all states, coherent to the company's native style - Generally accepted GUI standards shall be used for the development of the portal	**Usability Requirements**
NONFR19.	The system shall provide metrics to support ROI (Return On Investment) calculations as the following: - Number of home page views - Number of unique visitors - Number of hits per page - Number of registered users	**Metrics requirements**