

Requirement Specification Document

1- Project presentation :

Company Presentation : For the marketing of Its new coming vehicle model the NamX HUV, The car brand NamX offers a website for the user to check the characteristics and also pre-order the vehicle.

Website Name : NamX.

Title : Creation of a website to promote NamX upcoming new vehicle model.

Description :

My website that I'm about to create specializes in promoting NamX's upcoming new vehicle with all its characteristics. It aims to make it easier for the customer to read about this new product. The site offers various information about the model performance according to its configuration, each vehicle will be accompanied with its price and based on the two configurations available.

1.1- The target addressed by the site:

"NamX" targets individuals, regular consumers and fans who would want to pre-order this new model before its official release date online with ease.

1.2- The problems and solutions of the website:

My website should answer the following questions :

- Need to pre-order a car online and guarantee it considering it may not be available to buy in the future ?

- Want to own a car that combines luxury, harmony and style with functionality and an environmentally friendly engine ?
- Your country doesn't have a shop that supports the selling of such products?

Answers :

- My website is an online store that offers customers all kinds of information needed on this car model depending on the chosen configuration with the possibility to pre-order it by paying in advance in a fast and secure way.
- NamX HUV is a model that promotes a sustainable future through its technology by offering a clean and powerful hydrogen powered vehicle without compromising on performance and also with a futuristic look.
- My website will support delivery in all countries.

2- Functional Needs in detail :

My website offers several services that facilitate the purchasing process for the customer from his visit to the site until the moment of finalizing the order.

Each product will be accompanied by its own performance information Its own images, design picture as well as its price and its description.

Each user has the possibility of benefiting from pre-ordering on our platform, the display of the model detailed information with their price, the addition of a product, the modification or the deletion of a product from the basket, as well as the display of the total price of his basket.

The user can register on our platform so that he can become a loyal customer and he can finalize his order as well as validate the method of payment made by entering his billing address and credit card information, in order to confirm the purchase transaction.

The site administrator's role is to manage the content and the various functionalities of the site, namely the addition of a new catalog of models, the modification of one or more products as well as the deletion

of one or more products sold, as well as adding various prices of the products already available, also the management of customer orders.

2-1 Exhibition of products:

Our site must have a virtual storefront through which the customer can consult a wide variety of detailed information about the product before he can decide to pre-order, so it will be mandatory to present the prices and details of each model there to facilitate the selection of a product to buy.

2-2 Customer registration :

Until this stage, the customer is still anonymous but to be able to move on to a more rigorous stage, he must register, this is done only for the first time, the user fills out a form which contains his personal information (Full Name, Email, Password ..) to place the order but afterwards, our customer can authenticate himself with his Email and his password to place other orders.

2-3 Adding a product to the basket :

After choosing a product, the customer must mention the quantity and the price which is automatically added to his basket with the unit price and the total price.

2-4 Method of delivery :

A customer who has already confirmed his pre-order will be sent the order automatically when the product is released.

2-5 Confirmation of the order :

Until this phase we have a customer, an order and a delivery address the path now is clearer, the order will only pass after the validation of all the information which is displayed in a single interface before moving on to the phase of payment.

2-6 Payment :

This is a very sensitive phase, for this it must be very secure, to complete the payment procedure successfully the customer must enter his address and payment info (mastercard,visa...) and the billing address

2-7 End of the purchase operation :

This will represent a notification that shows the order has been made successfully and the user will be sent a receipt of the brought order to his email registered on the website.

3- Functional Description of the Back Office :

From the back office, the “NamX” must be able to independently perform all the daily tasks necessary for the proper functioning of the website.

front management

- Management of the product catalog: Addition and removal of models displayed.
- Management of the details of the model and its configuration.

Back office management

- Order tracking: Display the orders of all users.
- Monitoring: Monitoring the stock available and the users who created accounts on the website.
- Checks the payment status of all the users registered to the website.

4- Site Tree :

The site is divided into 1 main page, all accessible from the header of the site, itself present identically on all the pages of the site. This main page is :

- Home

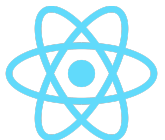
In addition to these main pages, the following pages must be accessible from the footer:

- Home
- About
- Terms of sales
- Privacy policy

6- Technical Constraints :

Front-end

- React.js : React is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta and a community of individual developers and companies.
- Tailwind CSS :Tailwind CSS is an open source CSS framework. The main feature of this library is that, unlike other CSS frameworks like Bootstrap, it does not provide a series of predefined classes for elements such as buttons or tables.



Backend

- Node.js : is an open-source, cross-platform, back-end JavaScript runtime environment that runs on a JavaScript Engine and executes JavaScript code outside a web browser, which was designed to build scalable network applications.



- MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas.



- Express.js, or simply Express, is a back end web application framework for building RESTful APIs with Node.js.

