**Functional Specification**

**(NAsa or SpaceX website)**

**(Project Exam1)**

**Assignment Week-1**

**(Report-1)**

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1. **Introduction:**

This document represent the requirement gathering and analysis process, as well as basic design of the website and mobile app.

The general key requirements given by the business owner is represented below as a vision/scope document:

Build a microsite for SpaceX or NASA with the focus on space technology.

A microsite is a branded, self-contained site, usually on its own domain, with a single purpose and a limited number of pages. The purpose can be promotional or editorial, and be may linked to a specific event or period of time.

* 1. **Key requirements**
* Create a microsite for SpaceX/NASA to raise awareness about space program activity around the world. The site should appeal to a specific target audience and provide links to more information, live feeds of launches, and so forth.
* The site should include a minimum of (4) pages, be responsive, and function well on a variety of platforms.
* The site should employ Javascript/JSON API for dynamic data and construction and styling of HTML/CSS. While a calendar is not mandatory, some kind of schedule or timeline information is recommended.
* A contact form with both HTML5 and Javascript validation is required.
* The site should be well designed and easy to use, and conform to WCAG standards.

1. **Requirements Document**

Then I tried to make a Requirements Document based on the key requirements given above. In this document, I have tried to make and differentiate business, users, operational and system requirements.

**User Requirement:**

* **Dynamic Website.**
* **Recent launch information**
* **Events schedule**
* **User Friendly Site.**
* **User can easily create/edit profile.**
* **Easy access to Search Engine.**
* **Products to sell related to Clothing, books, Videos, lectures.**
* **Payment Methods easily available.**
* **Receive newsletter, promotions and offers.**
* **Wishlist for the customers for SpaceX related products.**
* **Customers must create an online account for space related item purchases.**
* **Entertainment section for users about SpaceX and NASA.**

**Business Requirement:**

* **Science and Technology awareness program information.**
* **Online education material about Space and NASA**
* **Payment methods to be catered for (PayPal, Visa, Master bank transfer, cash on delivery).**
* **Site must also be easily updated if new products are made available.**
* **Contact details to be listed on site.**
* **24/7 chat line available to all customers.**
* **Email notification to customers**

**Operational and system Requirement:**

* **Database management system.**
* **Login management system.**
* **Events scheduling system**
* **Delivery or parcel tracking system.**
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1. **Usage scenario document**

Based on the vision and scope document, and the redefined detailed requirements in the requirements document, I have tried to create usage scenario document for the key functions of the business. Here are those usage scenarios:

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| Usage Scenarios  Scenario no 1 (Space launching events schedule).   * User Open the websites. * Check the schedule of events. * Get events details, photos, videos and other reading material * Register for events (if needed) * Payee by visa, MasterCard etc. (if needed).   Scenario no 2 (Shopping related products).   * User Open the websites. * Select the product(s). * Put in wishlist. (if needed) * Do Payment.   Scenario No 3 (Making profile/account).   * Click on Sigin button. * Put the personal data. * Complete the profile.   Scenario No 4 (Track Orders).   * Click the Track Order button. * Check where the order reached by entering tracking number. * Check when to receive package. |