**SYSTEM REQUIREMENT & SPECIFICATION**

# Introduction:

The purpose of this document is to present a detailed description of Smart Studio. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system. This document is the Software Requirements Specifications for Smart Studio. The following document which provides the complete Software Requirements Specification (SRS) for “Smart studio”.

## 1.1 Purpose:

The main purpose of developing Smart studio web application which is helpful for customers to design customized T-Shirts, Mugs, Albums, Photo Calendar, etc online. After the design customer can purchase items by entering quantity and address.

The Smart studio enables vendors to set up online studio, where customer can browse through the studio and a system administrator to maintain the set up. The main agenda of the smart studio is to set up a portal when the customer can customize printing of photos on T-Shirts, Mugs, Albums, Photo Calendar, etc online. Customers can also purchase make customized collage of photos and also purchase photo frames for the same. Added agenda of this product is that customers to purchase them online without having to visit the shop physically. Our Smart Studio will use the internet as the sole method for selling goods to its consumers.

The current system is offline system. More physical interaction is takes place in this current system between Customer and photo studio staff. Before ordering product customer preview cannot be done in the existing system. New online system will solve all the issues because Online designer implemented in the project and company can expand their business all over the world.

## Intended Audience and Reading Suggestions:

This document is for Admin, Employee and Customers. The document aims at explaining in an easy manner, the basic idea behind Smart studio. Document helps developers and clients easy to understand. Future development objectives are also discussed in this document.

## Project Scope and Product Features:

The main scope of this project are:

* The system is convenient and flexible to be used. It saves their time, efforts, money and resources.
* User Friendliness is provided in the application with various controls provided by system Rich User Interface.
* The user information files can be stored in centralized database which can be maintained by the system.
* Customers can upload photos or logo in T-Shirts, Mugs, Albums, Photo Calendar, etc.
* Once customer designs own design or choose from existing designs and they can purchase as many copies as they like.
* The customer can add the text, images, clipart, sizes, colors, fonts, rotation, and edit otherspecial effects.

## Definitions, acronyms, abbreviations:

* SRS – Software requirements specifications.
* PHP - A server side scripting language.
* MySQL - The database that will be used for this project.
* http – Hyper text transfer protocol
* www – World wide web

## References:

* Software engineering by Pankaj Jalote
* www.w3schools.com
* www.tutorialspoint.com
* Learning PHP, MySQL, JavaScript and CSS: A Step-by-Step Guide to Creating Dynamic Websites by Robin Nixon.

## Overview:

The remainder of this document includes three chapters and appendixes. The second one provides an overview of the system functionality and system interaction with other systems. This chapter also explains the system constraints and assumptions about the product. The third chapter provides the requirements specification in detailed terms and a description of the different system interfaces. Different specification techniques are used in order to specify the requirements more precisely for different audiences.

# Overall Description:

The following subsections provide complete overview of the SRS documentation for the product “Smart Studio”. For the rest of the document, we first define the overall product. Then, we give the external interface requirements, followed by a brief description of the product components and features. In the last section, we have provided the non-functional requirements of the product.

## Product Perspective:

With the ever-increasing popularity and accessibility of the internet, it is only natural that the educational community should want to make use of this tremendous resource. The administrative user interface concentrates on the consistent information that is practically, part of the organizational activities and which needs proper authentication for the data collection. The Interface helps the administration with all the transactional states like data insertion, data deletion, and data updating along with executive data search capabilities.

The operational and generic user interface helps the users upon the system in transactions through the existing data and required services. The operational user interface also helps the ordinary users in managing their own information helps the ordinary users in managing their own information in a customized manner as per the assisted flexibilities.

## Product Functions:

The product has following functions:

* The product works online with help of internet connection.
* The Email gateway integrated with this web application.
* This website is secured and each user needs to login the system to access account.

## User Classes and Characteristics:

It is considered that the user do have the basic knowledge of operating the internet and to have access to it. The administrator is expected to be familiar with the interface of the tech support system.

## Operating Environment:

These are the major components to run this software. The server needs following tools to run the website:

* Apache Server
* MySQL Server

## 

## Design and Implementation Constraints:

CO-1: The system’s design, code, and maintenance documentation shall conform to the Process Impact Intranet Development Standard, Version

CO-2: The system shall use the current corporate standard MySQL database engine.

CO-3: All HTML code shall conform to the HTML 4.0 standard.

CO-4: All scripts shall be written in PHP.

## Assumptions and Dependencies:

* Internet connection required.
* 24X7 uptime server connection required.
* One assumption about the product is that it will always be used on mobile phones that have enough performance.
* The user should have basic computer knowledge. They should be trained to handle the features provided by the system.
* The browser version should be used which have html5 support

# Specific Requirements:

This section contains all of the functional and quality requirements of the system. It gives a detailed description of the system and all its features.

## External Interface Requirements:

This section provides a detailed description of all inputs into and outputs from the system. It also gives a description of the hardware, software and communication interfaces and provides basic prototypes of the user interface.

### Communication interface:

The project shall use the HTTP protocol for communication over the internet and for the intranet communication will be through TCP/IP protocol suite.

## Functional Requirements:

The project has following modules:

* **Customer account module:**

Public customer or non-registered visitor can view the curtains through online. But to purchase the curtain customer needs to login to the website. New customer can register to the system by entering profile details. Registered customer can post reviews/comments and he can like or dislike the product. After the login customer can change his password or profile details.

Sub modules are:

* + Customer Registration
  + Customer Login
  + Change password
  + Customer profile
  + Forgot password / Recover password
* **Design types module:**

This module is for employees or administrator to add different types of services or designs for Calendar, T-shirts, Mugs, Photo album and Photo frame. Here the administrator can set offers or discounts, addition of promotional products etc. Customer can view list of designs with cost and types.

* Add Calendar design
* View Calendar design
* Add T-shirts design
* View T-shirts design
* Add Mugs design
* View Mugs design
* Add Photo album design
* View Photo album design
* Add Photo frame design
* View Photo frame design
* **Calendar Creator module:**

In Calendar Creator module customer can make beautiful calendars in just a few mouse clicks. The user can choose the required calendar design, upload the photo/s or banners and text to the calendar and place an order for calendar.

* + Calendar designer
* **T-Shirts designer module:**

In this module, T-Shirtsdesigner software customers has options to personalize any design on listed T-shirts.The ability to upload custom designs, and let customers personalize them by adding custom text and images. Online preview tool helps customers to see what they'll get while they design.

* + T-Shirts designer
* **Mugs module:**

In this module, the user can choose the mugs of their choice and personalize it by uploading the photo/image of their requirement. Customer can upload images and symbols. Besides, Customer can add custom texts and various effects.

* + Mugs Designer
* **Photo Album module:**

In this module, the user can choose the photo book, add the photo and text required and then place the order.

* + Photo Album designer
* **Photo Frame Editor module:**

This module enables the user to select a frame or customize a frame to upload photo/s. photo frame editor can help customer add picture frames online easily.

* Photo frame designer
* **Purchase Preview module:**

In this module customer can check preview by uploading persons photo or logo. This will show preview how it looks for Calendar, T-shirts , Mugs, Photo album or Photo frame. In the preview the system will display complete preview with cost.

Sub modules are:

* + Upload photo or logo
  + Select Calendar, T-shirts , Mugs, Photo album or Photo frame.
  + Purchase Preview
* **Online Order module:**

The customer can select the items and put it into a cart and as soon as he clicks on finish, the total amount to be paid is displayed and also provides discount if any. View cart screen shows all the selected items, here quantity as to be entered. And also option is provided to deselect the products.The customer can pay cash on delivery or else he can pay by entering his credit card number and address to which the items have to be shipped. The system generates bill after making payment.

* Add to cart and view cart
* Purchase form
* Billing form
* Payment module
* Billing module
* **Payment module:**

Here the customer can see the payment options available to him. When customer clicks the "Order" link it will go straight to the "Paid" orders.

* Credit card
* Debit card
* Net Banking
* **Reports module:**

Here user can track his order details and reports of the orders placed by him in the past. The administrator can view the order details and order reports of all the customers.

* + Sales report
  + Payment report
  + Customer report
* **Dashboard Module**:

This module is used by the administrator or employees. Admin has full authority of the website who can monitor complete features of the website.

* + Add employee
  + View employee
  + Employee profile
  + Change password

# Other Nonfunctional Requirements:

## Performance Requirements:

This section lists the performance requirements expected from this Project:

* The users shall be able to add any records fewer than 5 seconds.
* The users shall be able to view any records fewer than 10 seconds.
* The users shall be able to download videos within 20 -40 seconds.
* The navigation between pages shall take fewer than 5 seconds.
* The application shall be able to do a validation check on the information provided in the user-authentication form and the place-order form to avoid false or incomplete information**.**

## Safety Requirements:

No safety requirements have been identified.

## Security Requirements:

* Users needs to require to log in to the System for all operations except viewing a items.
* The system shall permit only staff members who are on the list of authorized Menu Managers to create or edit items.

## Software Quality Attributes:

If the connection between the user and the system is broken prior to an order being either confirmed or canceled, the System shall enable the user to recover an incomplete order.

* **RELIABILITY**

It is tested for all the constraints at development stage

* **AVAILABILITY**

This system will only available till the system on which it is installed is running.

* **SECURITY**

This system is provided with authentication without which no user can pass. So only the legitimate users are allowed to use the application. If the legitimate users share the authentication information then the system is open to outsiders.

* **MAINTAINABILITY**

There will be no maintenance required for the website. The database is provided by the end-user and therefore is maintained by this user.

* **PORTABILITY**

The system works anywhere with the internet connection