

Software Requirement Specification Document For INGAZ for print

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1.2	9-March-2020	Introduction .
1.3	11-March-2020	Scenarios.
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2.1	10-April-2020	Updating Functional Requirement, updating class diagram.
3.0	13-June-2020	Third Submission,
3.1	5-June-2020	Updating Functional Requirement,

Table 1: Document version history

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1 Introduction

1.1 Purpose of this document

The main purpose of this Software Requirements Specification document is to illustrate our system (INGAZ) requirements that aims to provide a high quality printing service to benefit our clients. INGAZ is considered to be a web application that will be built over PHP,CSS, HTML, and Java . We also provide a fulfilled description of each single stage input, Post-Condition, and algorithms used in this stage. Along with a full illustration for each stage's requirements and development process. And stating down system constraints, what difficulties have we faced during development and how should we interact with it.

1.2 Scope of this document

The document targets the clients, employees, and companies administration which has a role in the companies business flow.

1.3 Business Context

This system aims to provide a high-quality printing service to benefit our clients. It is expected to present the clients' designs in the best way possible to help them reach their goals and visions.

2 General Description

2.1 product Functions

The system's main target is to provide a service that has only been available internationally to Egyptians. The system allows the client to create, customize, and print flyers, business cards, and notebooks with simple clicks.

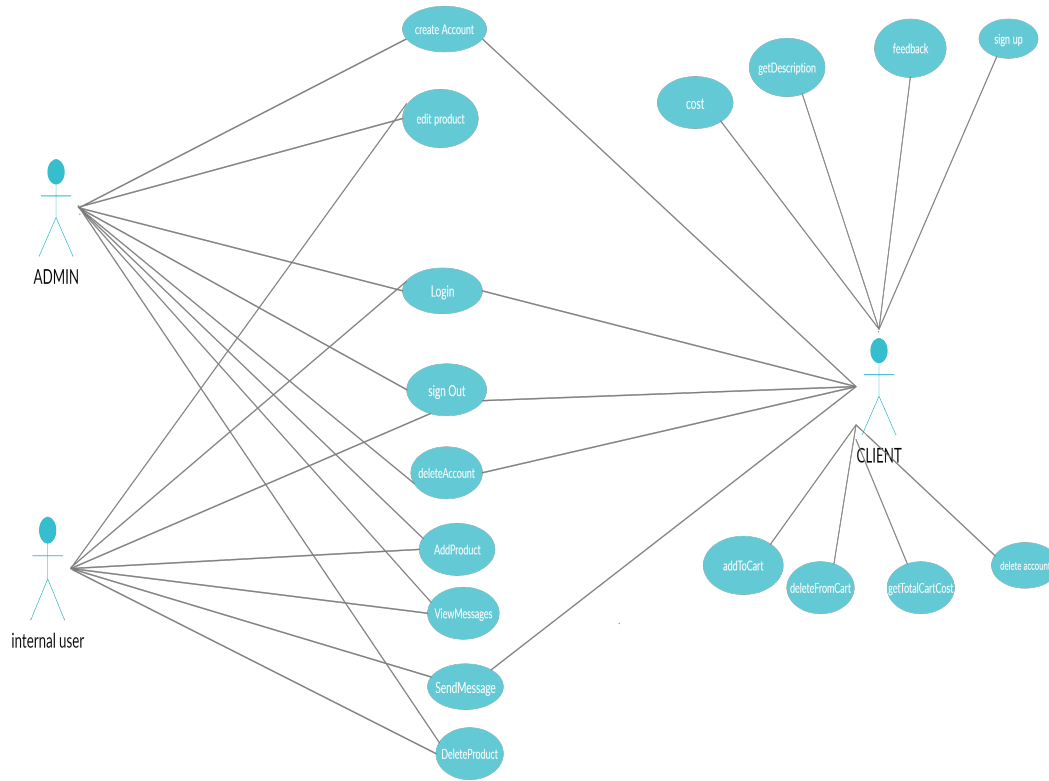


Figure 1: Use Case Diagram

2.2 Similar System Information

"Solopress" [2] is an example of an online printing system based in the United Kingdom. This web application provides similar services with "INGAZ".

2.3 User Characteristics

This is an online printing system that targets clients, employees and companies who want to promote or advertise their product or brand through the use of flyers, business cards, and notebooks.

2.4 User Problem Statement

In order to print products in Egypt it is required for the client to go visit the printing store. Also, people in other Governorates may have troubles in finding a printing company that is of high quality without having to travel long distances to get there. It is also a very time consuming process.

2.5 User Objectives

[3] In terms of the issue of visiting the printing store, our system offers a delivery service that delivers all over Egypt. Its also less time consuming and will be effective for people in places that are far from the printing store.

2.6 Operational Scenarios

Client module - when a client opens the web page he is automatically redirected to the homepage. He is then required to choose the product that he wishes to print. He will then start to customize the product in terms of his chosen design, the style, the size, and type along with several other characteristics if required. Then the client will choose the requested delivery time from a chart with the prices depending on the delivery time. Click on "add to basket", at this stage the client has two options whether to go back and shop again for other products or to proceed to the checkout page. At the checkout stage, the client is required to either login or sign up on the website to finalize his purchase transaction and get a receipt.

3 Functional Requirements

[6]

Function	Signup
ID	INGAZ01
Description	Clients should sign up to buy products
Input	Username, Password, E-Mail, Gender, Birthday, First Name, Last Name, Address
Post-Condition	The data will be put in the database if the process is successful and the user will be notified, if not, the user will also be notified. (Username taken, password doesn't match criteria etc.)

Function	Login
ID	INGAZ02
Description	Clients should login to buy products Internal users should login to view or send messages Admin should login to add, edit, or delete products and send or view messages
Input	Username, Password
Post-Condition	The user will be notified if process is successful, if not, the user will be notified to re-enter the data. (Wrong username or password)

Function	Logout
ID	INGAZ03
Description	All users should be able to logout out of their accounts, and all their data should be saved.
Input	N/A
Post-Condition	The user will be notified that they logged out successfully and will be redirected to the home page

Function	AddAccount
ID	INGAZ04
Description	The admin can create account for internal users
Input	username , email ,password ,birthday , gender , First name and Last name
Post-Condition	Account Created

Function	DeleteAccount
ID	INGAZ05
Description	The Client can delete his own account and the admin can delete internal user account only
Input	ID of account in case of Admin. N/A in case of Client.
Post-Condition	Account Deletion

Function	EditAccount
ID	INGAZ06
Description	The Client can edit his own account
Input	NewUsername , newPassword newFirst Name, newLast Name.
Post-Condition	user's data will be updated to the web application.

Function	SendMessage
ID	INGAZ07
Description	Clients and Internal Users should be able to send messages to each other.
Input	Username
Post-Condition	The reciever will be notified of any messages sent.

Function	ViewMessages
ID	INGAZ08
Description	Clients and Internal Users should be able to see recieved messages. Admin should be able to see any messages sent from/to Clients/Internal Users.
Input	N/A
Post-Condition	Clients and Internal Users can see and can reply to recieved messages. Admin can see messages sent from/to Clients/Internal Users.

Function	AddFeedback
ID	INGAZ09
Description	Clients should be able to add their feedback of the website and it's services.
Input	Client's feedback.
Post-Condition	The client's feedback will be added to the site for everyone to see.

Function	Add Product
ID	INGAZ10
Description	The internal user and admin they are only one's who can add product
Input	Products Details
Post-Condition	Product Added

Function	EditProductName
ID	INGAZ11
Description	The admin should edit any product's name.
Input	Product, new product name.
Post-Condition	The product's name will be updated to the web application.

Function	DeleteProduct
ID	INGAZ12
Description	The internal user and admin they are only one's who can delete a product
Input	The ID of product
Post-Condition	Product Deleted

Function	AddToCart
ID	INGAZ13
Description	Clients should be able to save any product to their cart so they can checkout at anytime.
Input	Product.
Post-Condition	Client will be notified if the product was added to their cart, and will be able to see the product in their cart. The client will also be notified if the product is not available.

Function	DeleteFromCart
ID	INGAZ14
Description	Clients should be able to delete any product from their cart.
Input	Product id.
Post-Condition	Client will be notified if the product was deleted from their cart.

Function	AddPaper
ID	INGAZ15
Description	Clients should be able to delete any product from their cart.
Input	Product id.
Post-Condition	Client will be notified if the product was deleted from their cart.

Function	DeletePaper
ID	INGAZ16
Description	Clients should be able to delete any product from their cart.
Input	Product id.
Post-Condition	Client will be notified if the product was deleted from their cart.

Function	EditPaperName
ID	INGAZ17
Description	The admin should edit any paper type's name.
Input	Paper, new paper type name.
Post-Condition	The paper type's name will be updated to the web application. (A3 updated to A4 etc.)

Function	InsertCategory
ID	INGAZ18
Description	The admin should edit any paper type's name.
Input	Paper, new paper type name.
Post-Condition	The paper type's name will be updated to the web application. (A3 updated to A4 etc.)

Function	deleteCategory
ID	INGAZ19
Description	The admin should edit any paper type's name.
Input	Paper, new paper type name.
Post-Condition	The paper type's name will be updated to the web application. (A3 updated to A4 etc.)

Function	EditCategory
ID	INGAZ20
Description	The admin should edit any paper type's name.
Input	Paper, new paper type name.
Post-Condition	The paper type's name will be updated to the web application. (A3 updated to A4 etc.)

4 Interface Requirements

4.1 User Interface

Use some software for primitive plan of your project. Describes how this product interfaces with the user.

4.1.1 GUI

[1] [5][4]

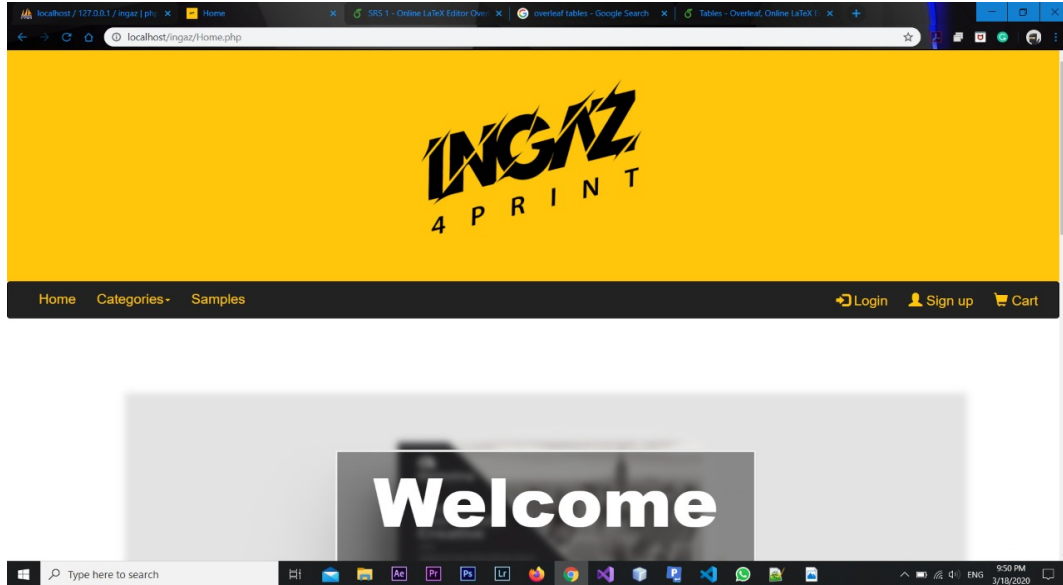


Figure 2: Home page

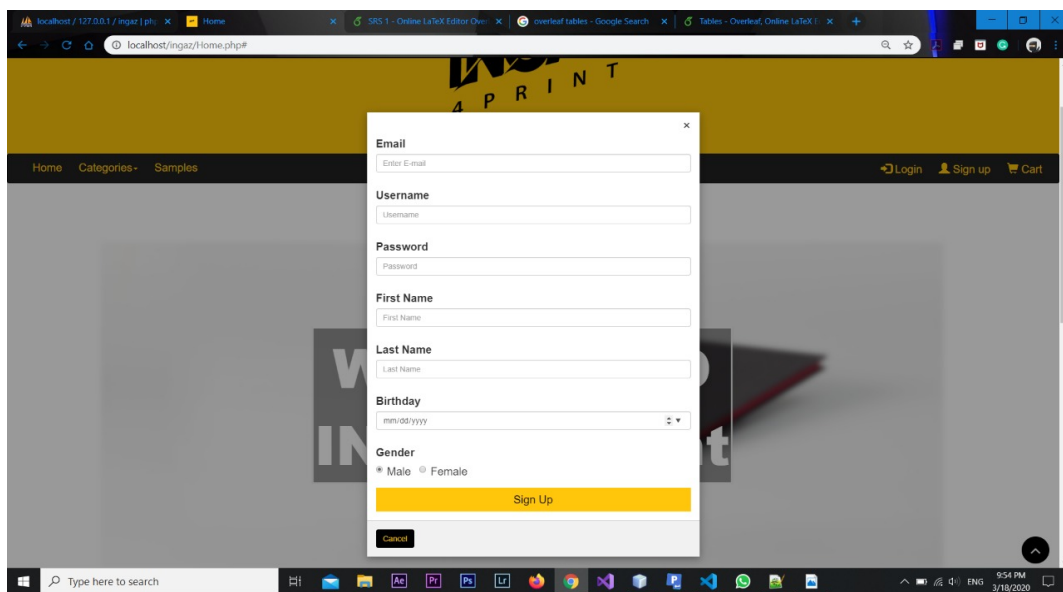


Figure 3: Signup form

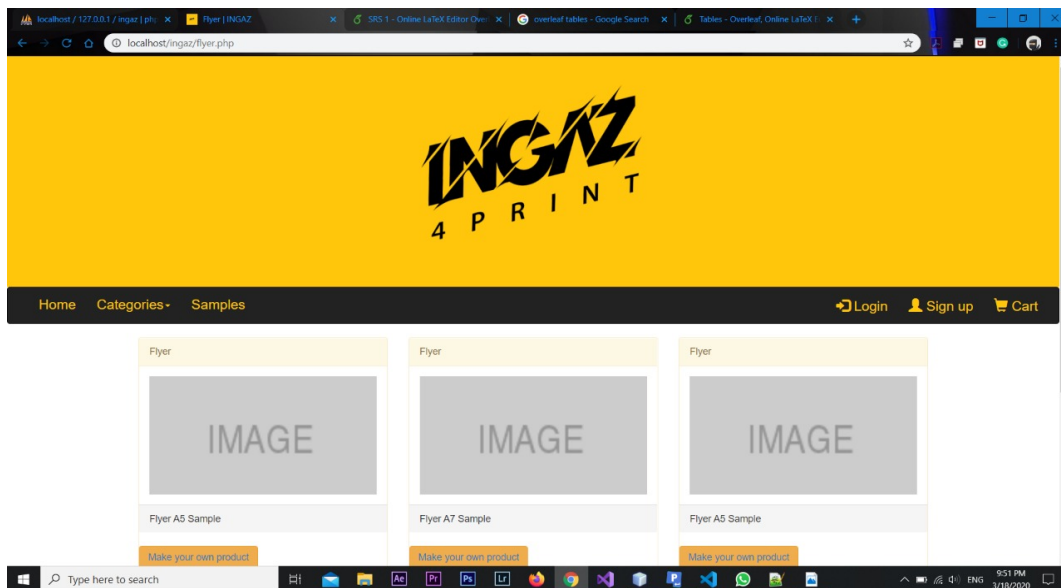


Figure 4: Product categories page

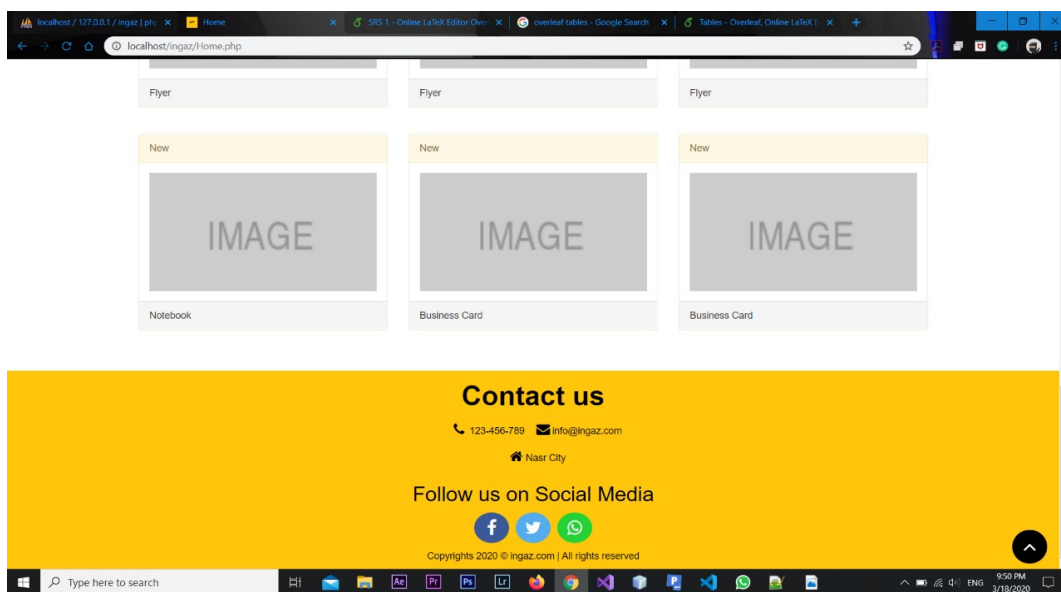


Figure 5: Product categories page continued

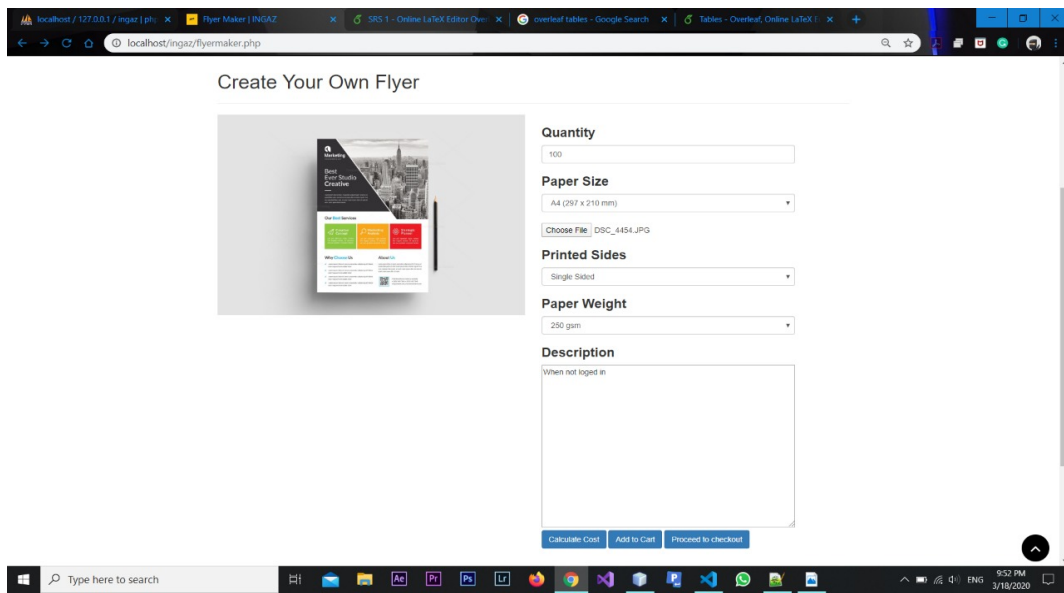


Figure 6: Product customization page (Not logged in)

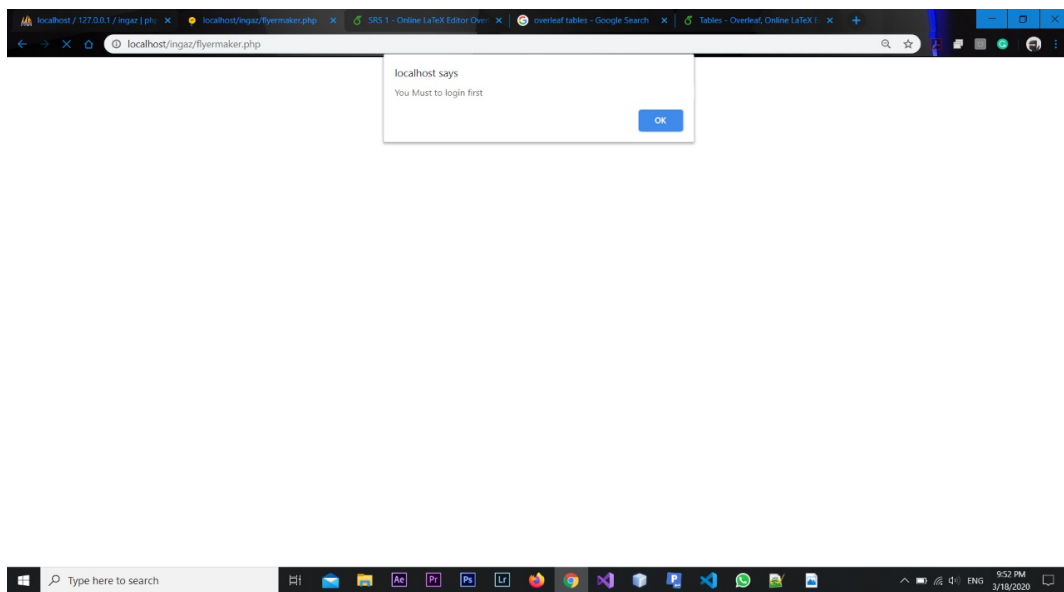


Figure 7: Not logged in notification

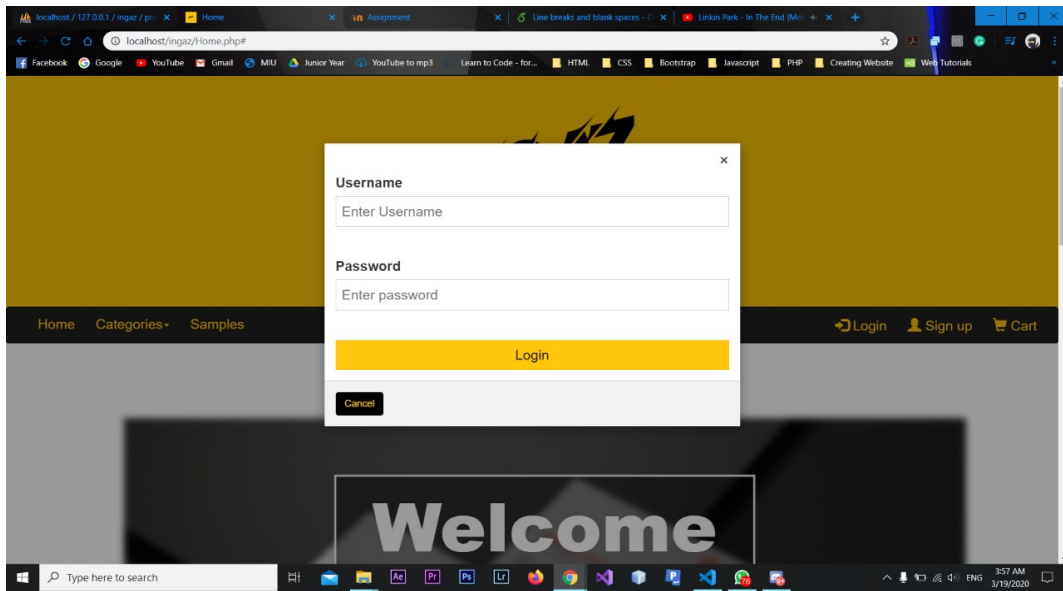


Figure 8: Login form

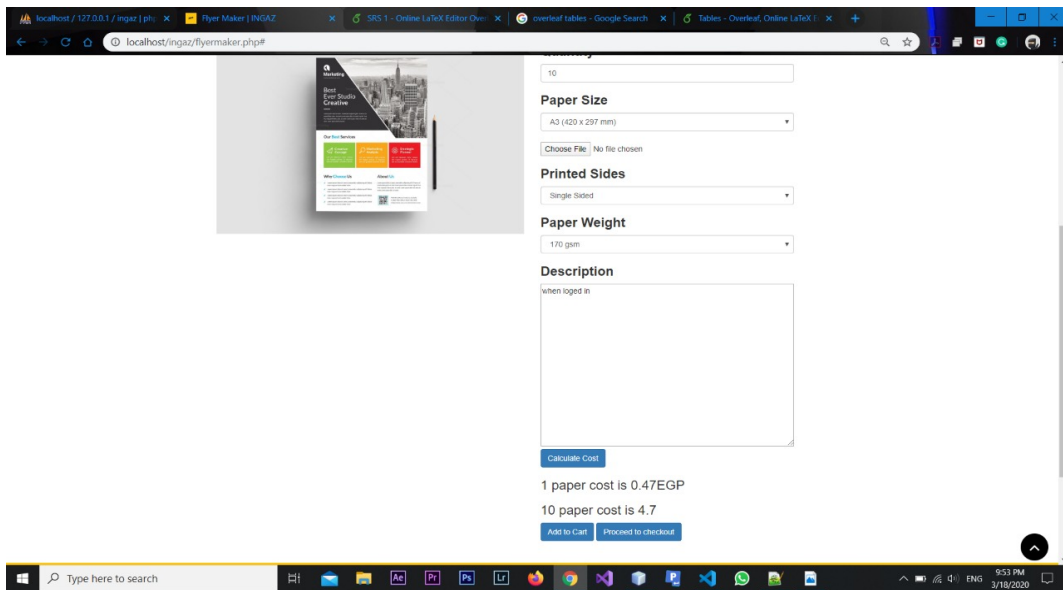


Figure 9: Product customization page (Logged in)

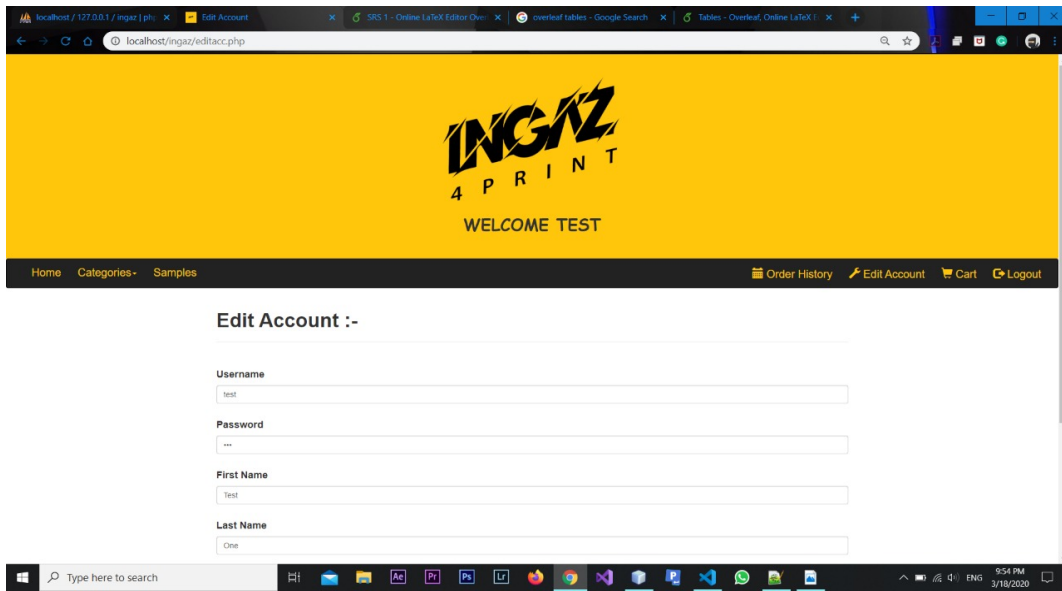


Figure 10: Edit Account page

5 Other non-Functional attributes

Although this system may still function without these non-functional requirements but they will be still needed to enhance the system, so security, maintainability, and portability are the non-functional requirements that the system tries to accomplish.

5.1 Security

This feature can be applied to the system through encrypting all the data before being stored in the database. Moreover, hashing confidential data will be obligatory to assure that the stored data is secured

5.2 Maintainability

This feature is applied by implementing the EAV "Entity Attribute Value" which provides the system more flexibility later on when there is a change in business requirements. Moreover, applying the concept of "MVC" gives the system more flexibility later on when applying any changes which will not require to test all files

5.3 Portability

Portability can be achieved in this system by implementing responsive interface to allow the user to interact with the system using any device that has a web browser.

6 Preliminary Object-Oriented Domain Analysis

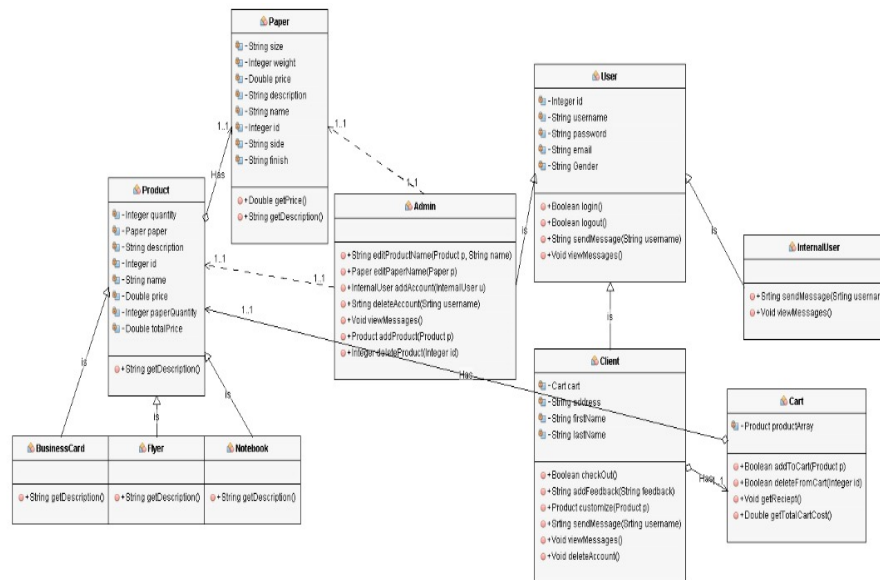


Figure 11: Class Diagram

References

- [1] a developer at Twitter a designer a developer at. *Components*. 2010.
- [2] Aron Priest Andy Smith. *Online Printing Services by Solopress*. 1999.
- [3] Aldrin Bhunu. “An investigation into the adoption and implementation of an online business network platform for the printing industry and the associated benefits”. In: (2018).
- [4] a Norwegian software development Refsnes Data and consulting company. *Navbar*. 1998.
- [5] a Norwegian software development Refsnes Data and consulting company. *Buttons Reference*. 1998.
- [6] LaTeX Tables. *LaTeX Tables Generator*.