Al-Hussain Technical University

The National ICT Up skilling program

Programming in PHP

AVIATOshop
A Multi-Vendor Listing Providers

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Abstract

Electronic commerce lets people purchase goods and exchange information on business transactions online. Although the Internet's role as a business channel is a fairly recent phenomenon, its impact, financial and otherwise, has been substantially greater than that of other business channels which have been in existence for several decades.

The authors believe that e-commerce gives companies improved efficiency and reliability of business processes through transaction automation.

There are two major types of e-commerce: business to consumer (B2C), in which consumers purchase products and services from businesses, and business to business (B2B), in which businesses buy and sell among themselves. B2B transactions are a growing segment of the e-commerce market.

This article analyzes and compares popular B2B frameworks that attempt to address such issues as interoperability and security between enterprises transacting business over the Internet.

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2. Introduction

2.1 Background

An eCommerce website is an information technology method in which traders, businesses/distributors/marketers can sell products/services and the customer can purchase on that website electronically by using the internet on the mobile and computer. It means an e-commerce website is an online shop.

e means electronic. Commerce means business. The website means the group of HTML web pages and that is created to market/sell information/products/services.

From a bigger perspective, every website on the internet is an eCommerce Website. It can be the platform, it can be a marketplace, it can be a portal, it can be apps, it can be an entertainment website, shopping website, online courses website, and online degree college.[4]

3. Methodology

3.1 Waterfall model (SDLC)

Waterfall model is an example of a Sequential model. In this model, the software development activity is divided into different phases and each phase consists of a series of tasks and has different objectives.

Waterfall model is the pioneer of the SDLC processes. In fact, it was the first model which was widely used in the software industry.

It is divided into phases and output of one phase becomes the input of the next phase.
 It is mandatory for a phase to be completed before the next phase starts. In short, there is no overlapping in the Waterfall model.[3]
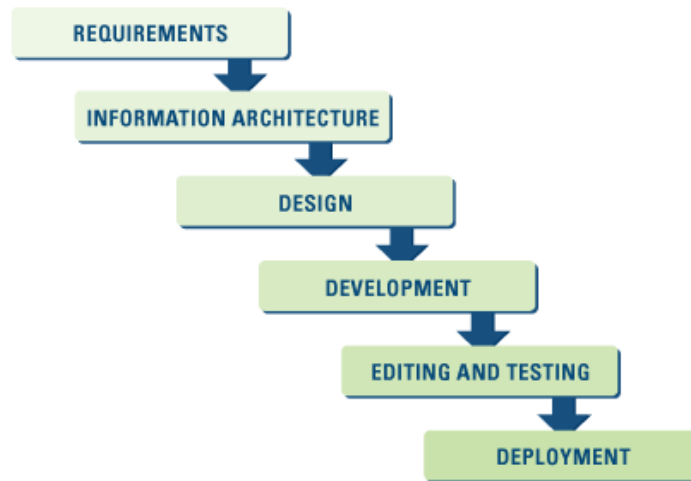
Figure 1: AVIATOshop Waterfall

3.3 System overview

A. Data Base Design(ER)

An Entity Relationship (ER) Diagram is a type of flowchart that illustrates how "entities" such as people, objects or concepts relate to each other within a system. ER Diagrams are most often used to design or debug relational databases in the fields of software engineering, business information systems, education and research.

I started by making a database (ERD) diagram to defining the entities and their attributes and see the relationships between them as shown in Figure 2.
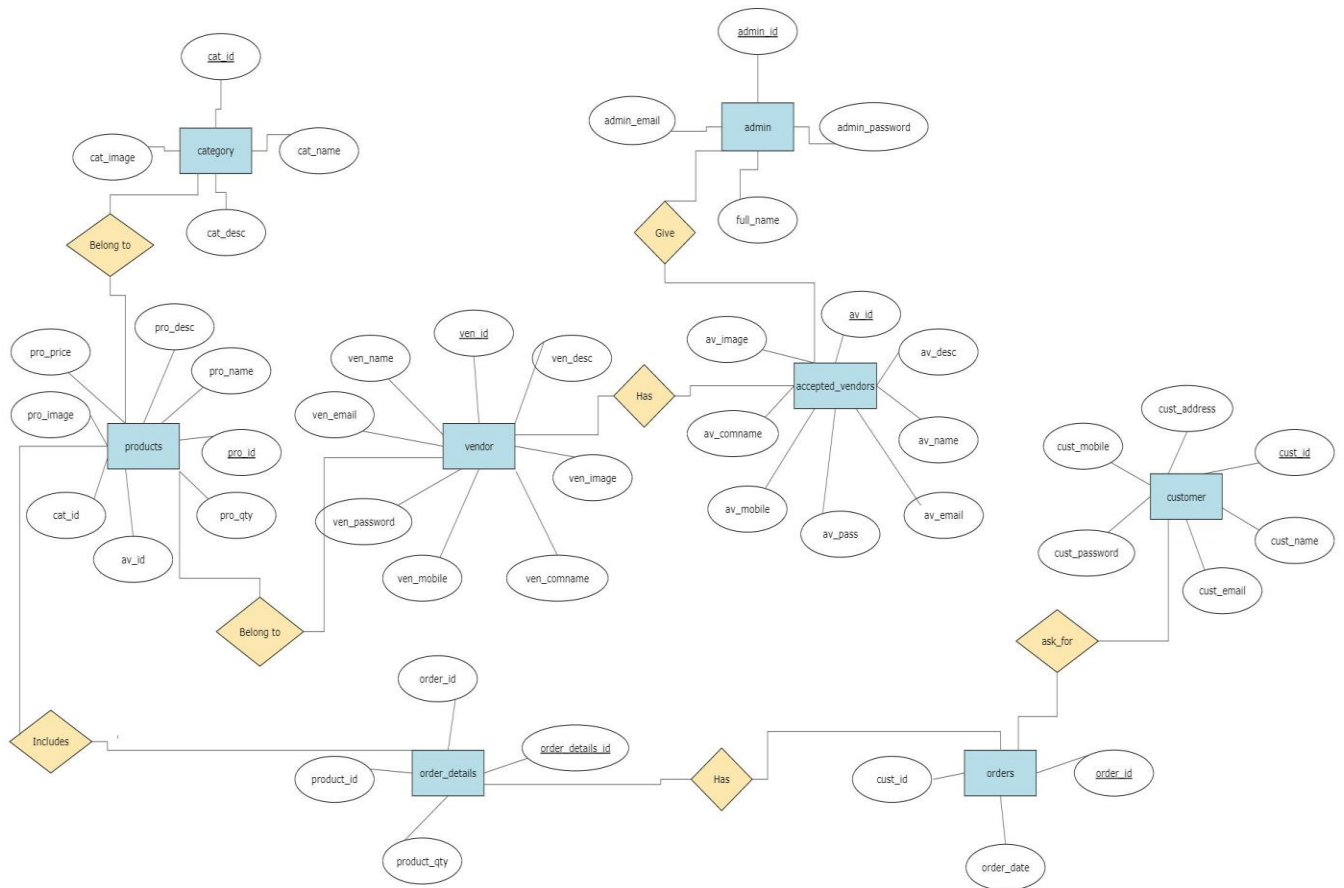
Figure 2: AVIATOshop entity-relationship diagram that shows the relationship between database tables
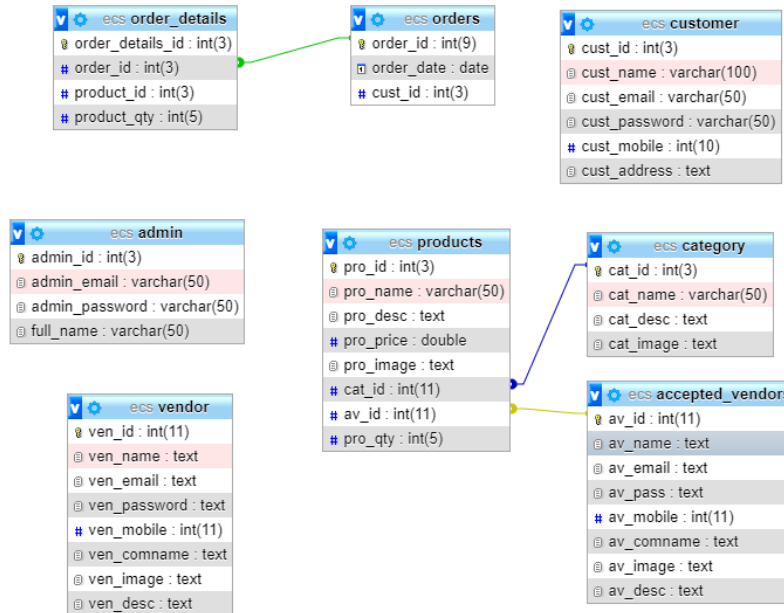[5]

Figure 3: AVIATOshop class diagram

B. Front End

In the front-end design. I used a template from athemes[2]. It is a responsive theme build using Bootstrap. I search their website to find the right template and then it will be easy to edit it for my website.

In Figure 4 and Figure 5 is the template that I use for admin dashboard page, vendor dashboard and homepage.
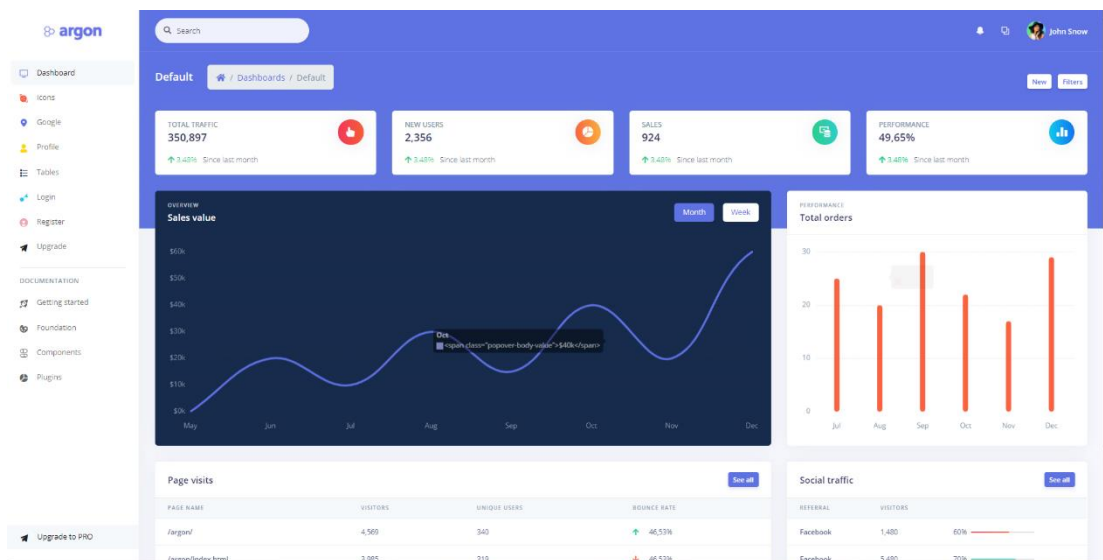
Figure 4: AVIATOshop admin dashboard and
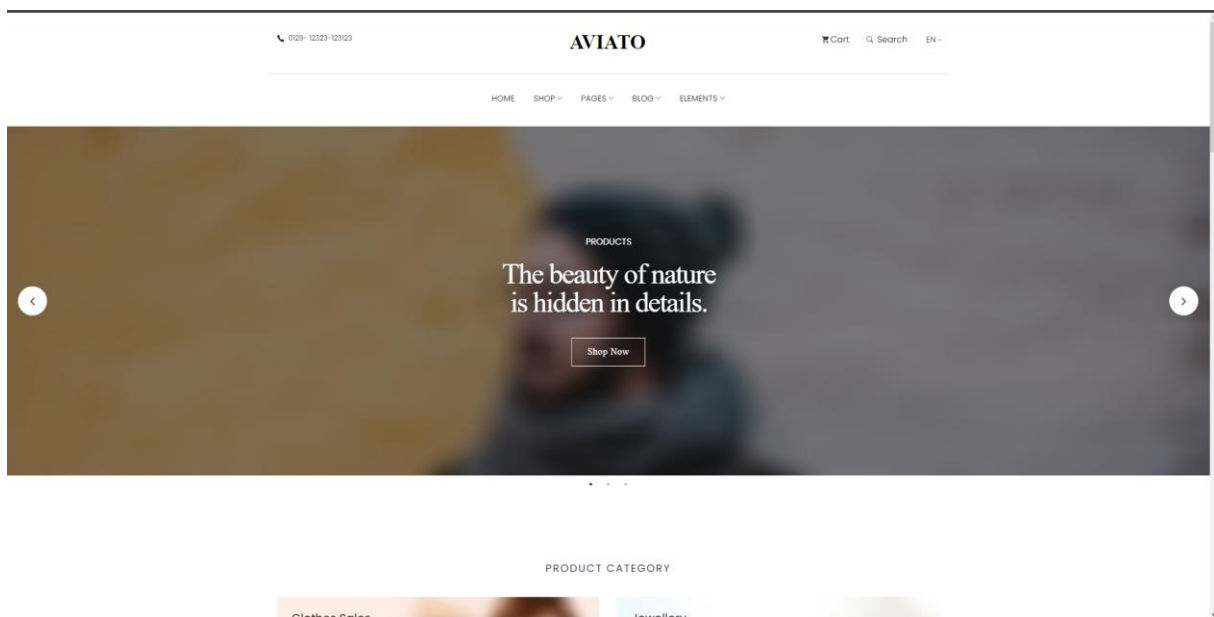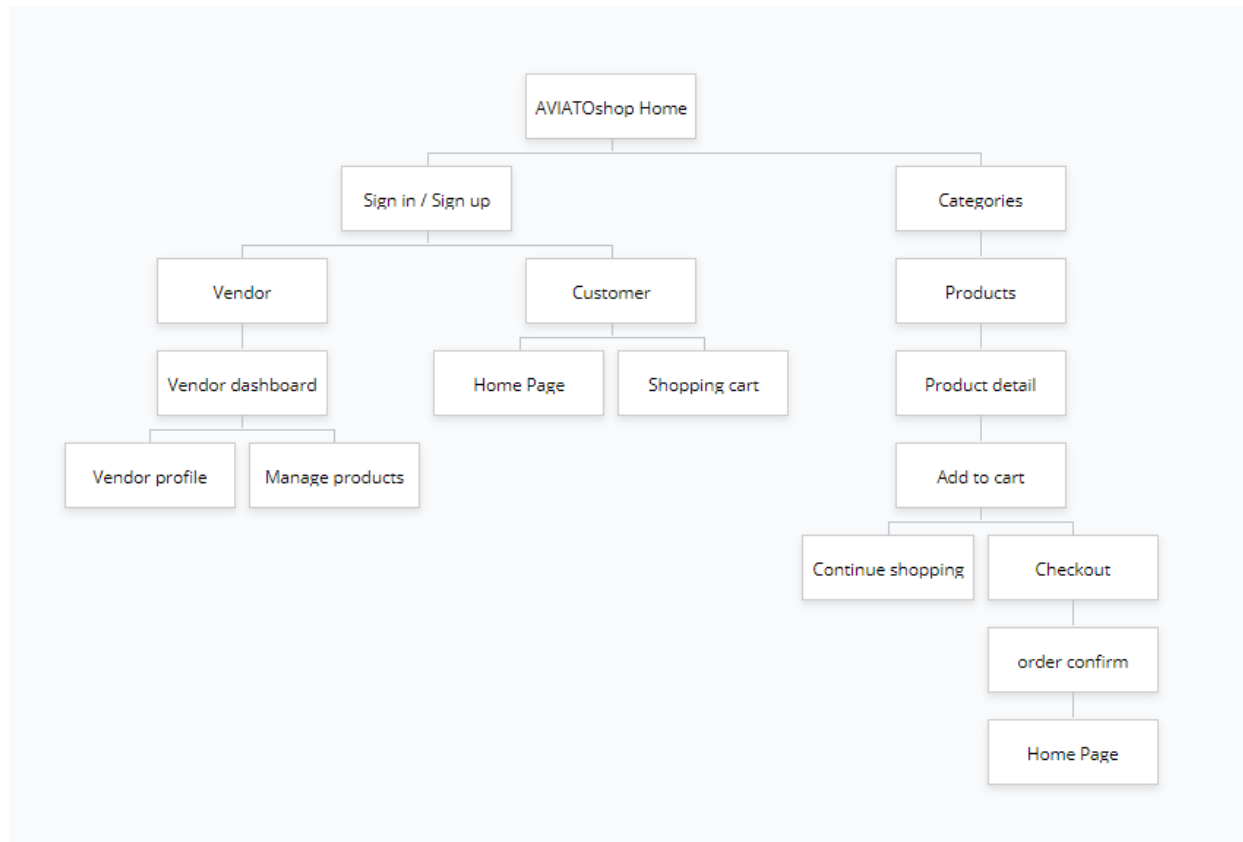vendor dashboard page template

Figure 5: AVIATOshop home page template

After finishing to pick the right templet I used sitemap to provide me information about the pages and other files on **site** and the relationships between them.

Figure 6: AVIATOshop sitemap[4]

C. Back End

In the back-end, I used PHP language applying the Object-oriented programming (OOP) mode.

4. Graphical user interface and the result

1.Homepage

where the customer can search for a category and login.
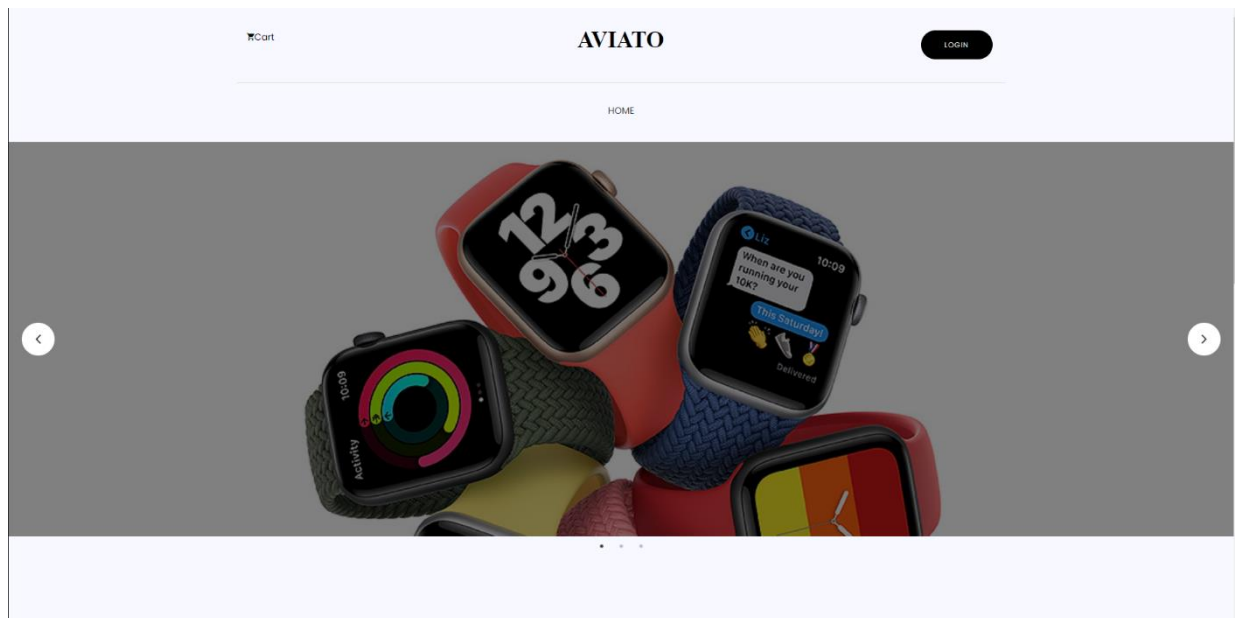

Figure 7: AVIATOshop home page

2.Product page

The customer can pick any product depending on what category he chooses.
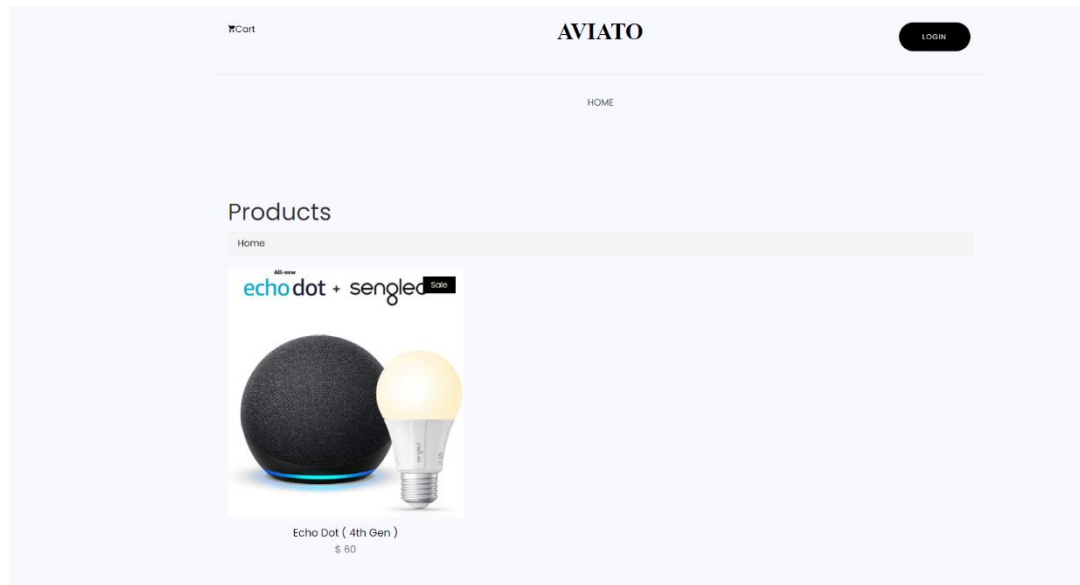

Figure 8: AVIATOshop product page

3.Product details page

The customer can see a full description of the product and add it to the cart.
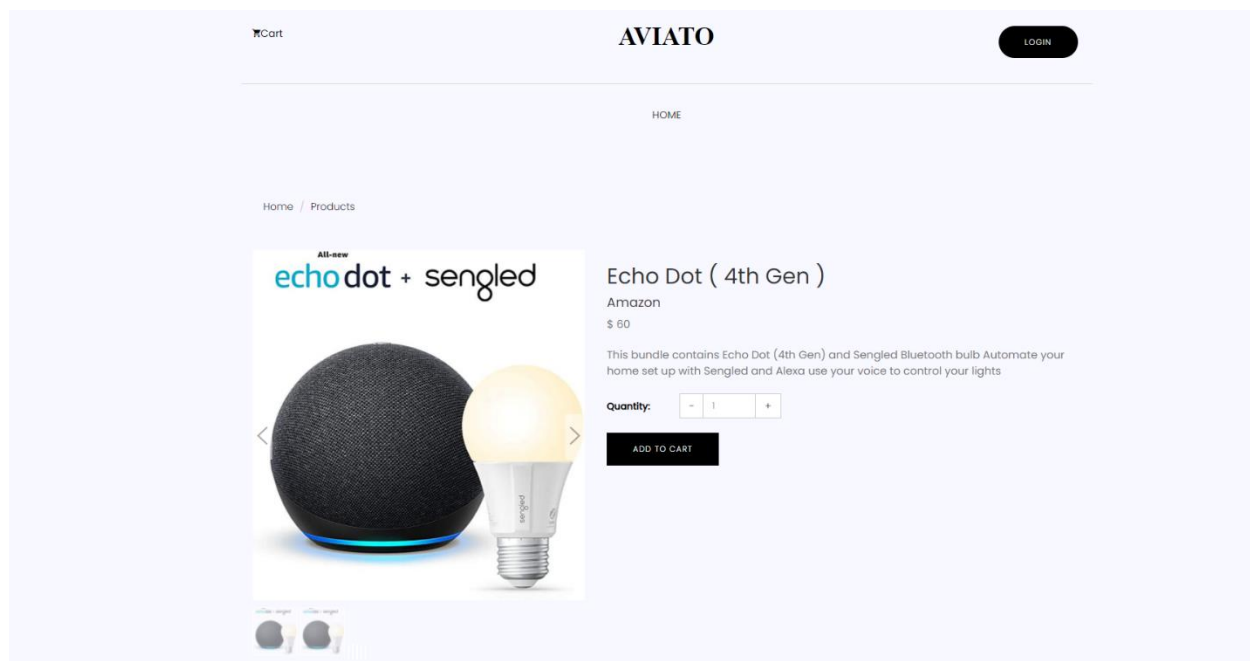

Figure 9: AVIATOshop product details page

4. shopping cart page

The customer can see all the product that he adds to the cart and choose to check out or continue shopping.
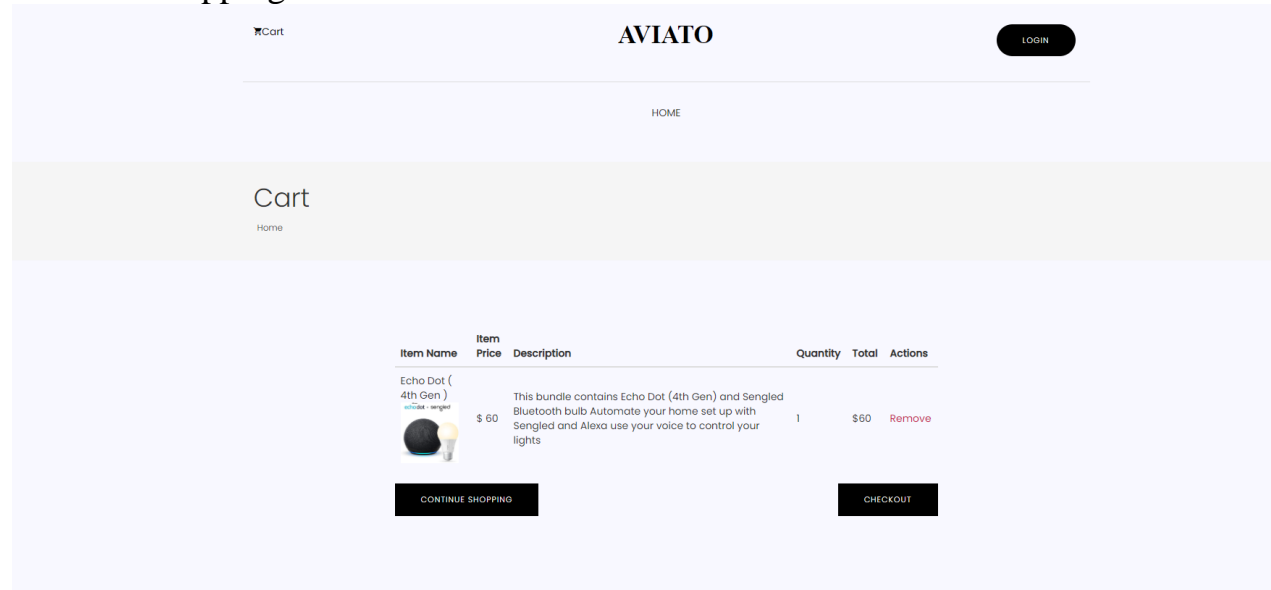

Figure 10: AVIATOshop Shopping cart page

5. Order conform page

The customer will take to the confirmation page and receive his order ID.
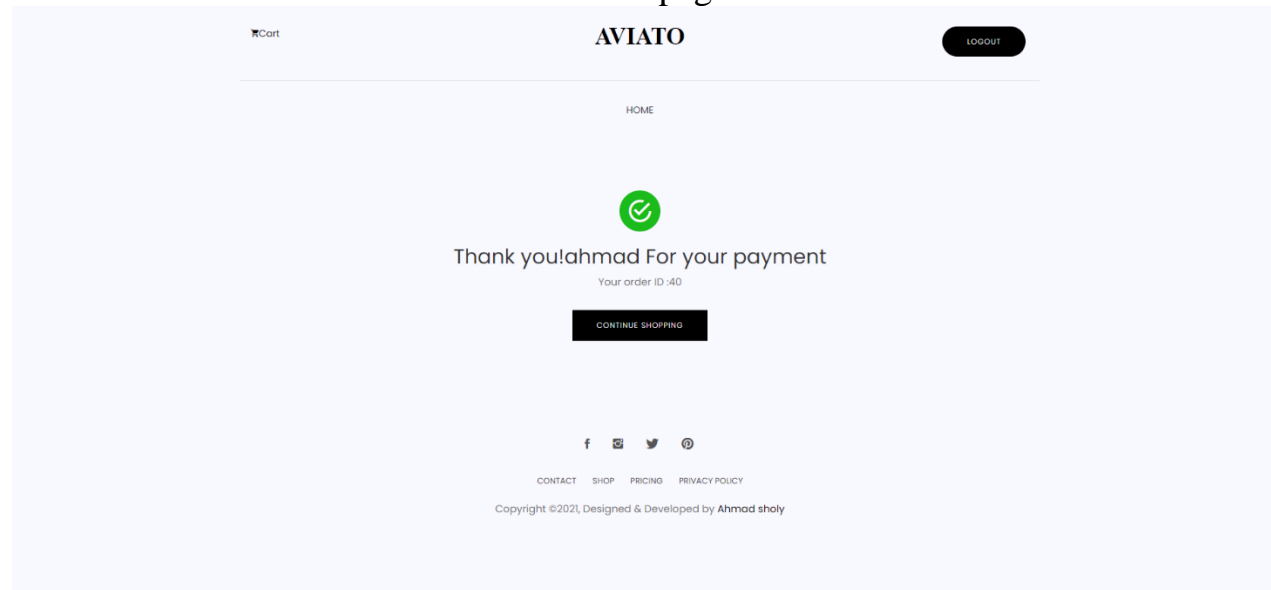

Figure 11: AVIATOshop order conform page

6. Customer register page
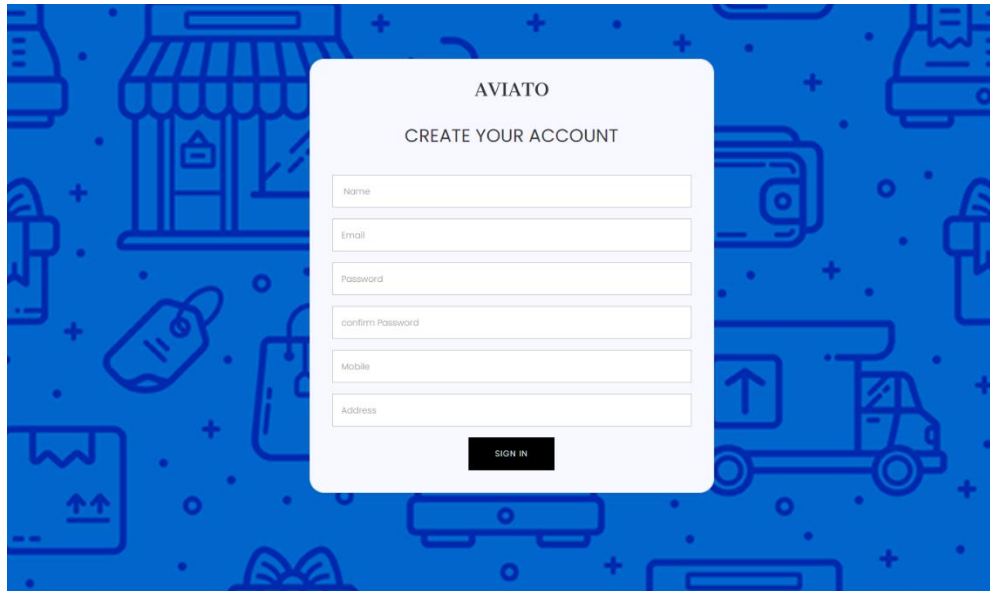
The customer can create a new account.

Figure 12: AVIATOshop customer register page

7. Vendor register page
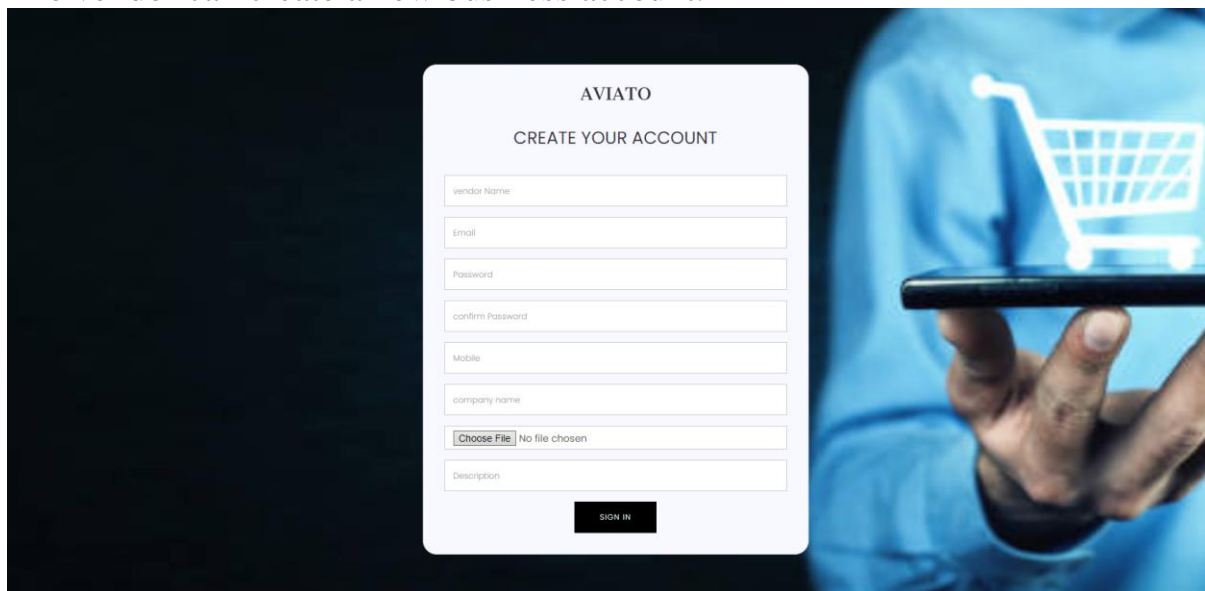
The vendor can create a new business account.

Figure 13: AVIATOshop vendor register page

5. Conclusion

Creating more opportunities for profit and advancements for businesses, while creating more options for consumers.

E-Commerce is not just about conducting business transactions via the Internet. Its impact will be far-reaching, and more prominent then we know currently.

The AVIATOshop has all the basic fetcher that every e-commerce website have to help the seller, and it is easy to use and update in the future.

References

[1]   Scott W. Ambler (2009) UML 2 Class Diagrams. Webdoc 2003-2009

[2]   https://www.softwaretestinghelp.com/what-is-sdlc-waterfall-model/

[3]   https://www.klientsolutech.com/ecommerce-website-introduction-with-examples/

[4]   https://www.gloomaps.com/NpqpJVeCFd

[5]   https://www.smartdraw.com/entity-relationship-diagram/