INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

INTERNATIONAL STANDARD SERIAL NUMBER INDIA

Impact Factor: 8.165

An Implementation towards E-Commerce Website for Online Shopping using AngularJS

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ABSTRACT: In this era of internet, e-commerce is growing by leaps and bounds keeping the growth of brick-and-mortar businesses in the dust. In many cases, brick-and-mortar businesses are resorting to having a counterpart which is internet or e-commerce driven. People in the developed world and a growing number of people in the developing world now use ecommerce websites on a daily basis to make their everyday purchases. Still the proliferation of e-commerce in the underdeveloped world is not that great and there is a lot to desire for. This system outlines different aspects of developing an ecommerce website and the optimum solution to the challenges in-volved in developing one. It consists of the planning process, which starts with determining the use case, domain modeling and architectural pattern of the web ap-plication. The entire development process is primarily divided into two parts: the front-end development and the back end development. The database design is also discussed with an emphasis on its relational connectivity. This no-nonsense method of developing an e-commerce website can be easily replicated and followed in developing e-commerce websites in the developing and underdeveloped countries where computing resources are scarce and expensive because of their socio-economic conditions.

I.INTRODUCTION

Electronic commerce or e-commerce refers to a wide range of online business activities for products and services. It is usually associated with online buying and selling over the internet or conducting any transaction involving the transfer of ownership or rights to use goods or services through a computer mediated network. In our eyes we see it as a new dimension to the varied use of the internet and our purpose is to make it trendy in our country where its use is particularly very low. Because of the high context culture it is very important to develop trust among the people interested ina transaction.Buying and selling activities carried out electronically have now become delightful activities for many people. Also called online shopping, this is considered to make it easier for sellers and buyers and seems more practical. Not only making online shops in various types of shopping applications, but many business actors also create e-commerce themed websites to expand their sales network of products and services. For website creation, many templates can be used. Online Shopping is the methodology whereby buyers direct buy stock and enterprises with nomediator administration over the Internet. The objective of this web application venture is tobuild up an electronic interface for individuals to purchase and sell items on the web, the sitewill be a solitary page application that would be simple and intuitive to utilize and henceforththe shopping experience will be wonderful for the clients.

With advent of pandemic more and more people prefer to shop from home through website or app .This has initiated for this application. The objective of this web application venture is to build up an electronic interface for individuals to purchase and sell items on the web, the site will be a solitary page application that would be simple and intuitive to utilize and henceforth the shopping experience will be wonderful for the clients.

II.LITERATURE REVIEW

Rijayana, I., 2021. Development E-Commerce Applications. Turkish Journal of Computer and Mathematics Education (TURCOMAT), 12(8), pp.985-990.
Buying and selling activities carried out electronically have now become delightful activities for many people. Also called online shopping, this is considered to make it easier for sellers and buyers and seems more practical. Not only making online shops in various types of shopping applications, but many business actors also create e-commerce themed websites to expand their sales network of products and services. For website creation, many templates can be used, one of which is

Prestashop CMS, which is an e-commerce platform used to build online store sites. In Prestashop, there are already many features that can be used, and it also makes it easier for users to build the website they want to create. Even though many people have switched to online shop users. But there are too many shops or malls that they still visit directly to see first hand the quality of the desired goods.[1]

Hidayati, A. and Nabila, R., 2018, September. E-commerce development using AngularJS framework and RESTful API. In IOP Conference Series: Materials Science and Engineering (Vol. 403, No. 1, p. 012063). IOP Publishing.
Partnership schema is widely applied in Indonesia poultry farm industry. In this schema, a poultry company cooperates with many breeder partners to raise their chicken. The company sends their field inspection staffs to monitor the growth of the chickens. Large number of breeders with manual process of report, handle, and monitor takes a significant amount of time and efforts. In addition, the data cannot be observed immediately by the company. A poultry farm monitoring system based on the Application Programming Interface (API) is proposed in this research. The system can be used by breeders, breeder partners and field inspection staffs to facilitate the process of reporting, handling and monitoring by the poultry company. The API technology is applied as a data center and a data provider. The combination of RESTful web service and JSON into the API enable the integration can be processed safely as well as simple and easy to use. The proposed system can be applied to complement or replace the existing manual processes on many poultry farms with partnership schema.[2]

W. Chansuwath and T. Senivongse, "A model-driven development of web applications using AngularJS framework," 2016 IEEE/ACIS 15th International Conference on Computer and Information Science (ICIS), 2016, pp. 1-6, doi: 10.1109/ICIS.2016.7550838.
AngularJS is one of the widely used frameworks for modern single-page web application development which is designed to support dynamic views in the applications. To
further assist AngularJS developers, this research proposes how the concept of model-driven development can be applied to AngularJS-based development. We propose a UML profile for AngularJS for building a model of an AngularJS web application, and a set of transformations that transform the model into a code template. The developer can then fill in the template to make a complete workable web application. Also, a transformation tool is developed to assist in constructing the code template. Using a case study application, the evaluation in terms of transformation rate shows that the automatically generated code covers 87\% of the complete code of the case study, which means it could greatly help reduce development time.[5]

Jadhav, M.A., Sawant, B.R. and Deshmukh, A., 2015. Single page application using angularjs. International Journal of Computer Science and Information Technologies, 6(3), pp.2876-2879.
Single Page Application (SPA) is composed of individual component that can be replaced or updated independently, without refreshing whole page so that the entire page does not need to be reloaded on each user action, which saves bandwidth as well as no loading of external files every time when page is loaded, such as images or CSS files, etc. The purpose behind this is to make the subsequent page loads very fast as compared to traditional Request-Response cycle. SPA's written by using JavaScript, HTML5, AJAX are getting the likes of developers to build their web applications and some frameworks like AngularJS which are built on top of the JavaScript are making the life of developers very easy. The idea behind using AngularJS in web application is to make your web application modular and easy to maintain. AngularJS brings MVC (Model View Controller) capability to your application. After using minified and compressed files in your application, the size reduces to some KBs which will results in faster loading of pages.[6].

III.METHODOLOGY OF PROPOSED SURVEY

Existing System:
The working for traditional system started with initial request with url address and return of Html page.Every time the page needs to reload before putting next request.
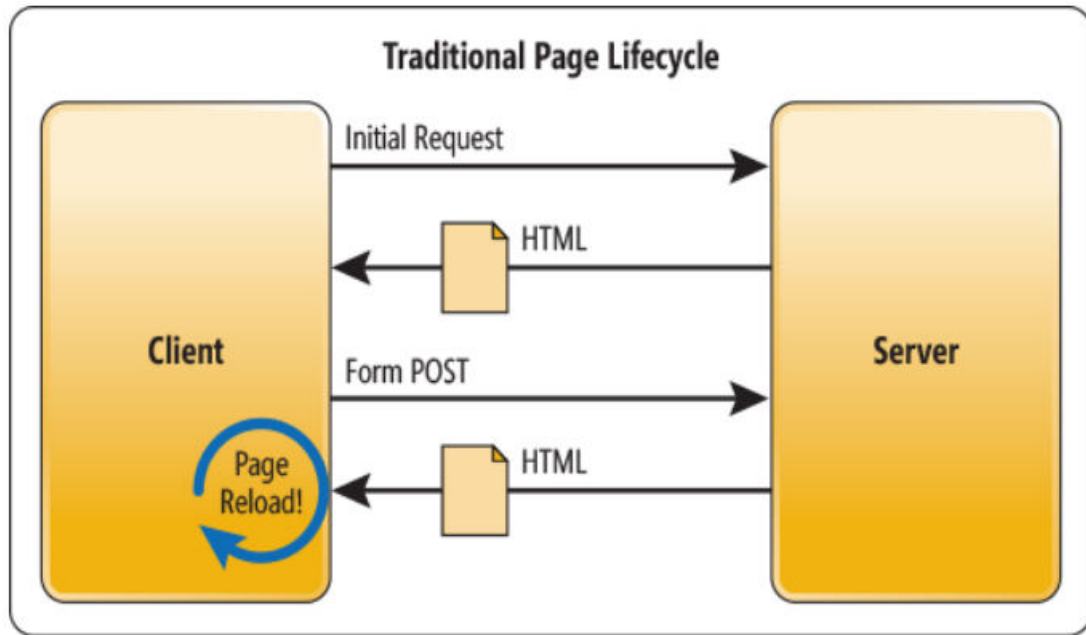
Fig: Existing System

Disadvantages:

The existing system, allows working of website to be slow.The Transaction of anything related to data or moneytakes time. Websites should be reloaded every-time which increases the time for further processing.

Proposed system:

The working for proposed system started with initial request with url address and return of Html page. With new technical development, the only needed request are send to server side. Remaining code remains same on client side. Thus it takes less time to process request.AngularJS is an open source JavaScript framework maintained by Google and community which can help developers to create single page applications. Its purpose is to help developing the web applications with model-view controller (MVC) capability in an effort to make development, maintaining and testing easier. SPA is getting popular nowadays and the technology like AngularJS aids to create such applications. AngularJS helps to create web applications which are based on HTML, CSS, and JavaScript. AngularJS brings the MVC capability to the web application and hence making it more modular and easy to develop, maintain and test. AngularJS introduces additional tags which are called as directives. These directives are prefix with 'ng-' and the goal of directive is to bind the data to the view/templates through controller. AngularJS controllers are written in JavaScript which add the business logic to views which are nothing but HTML pages.
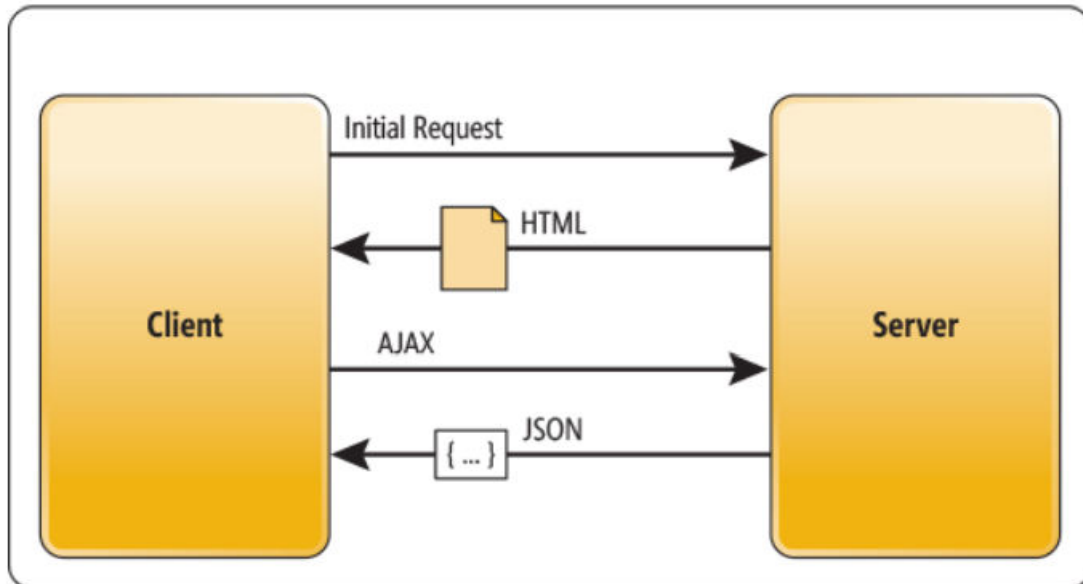
Fig: Proposed System
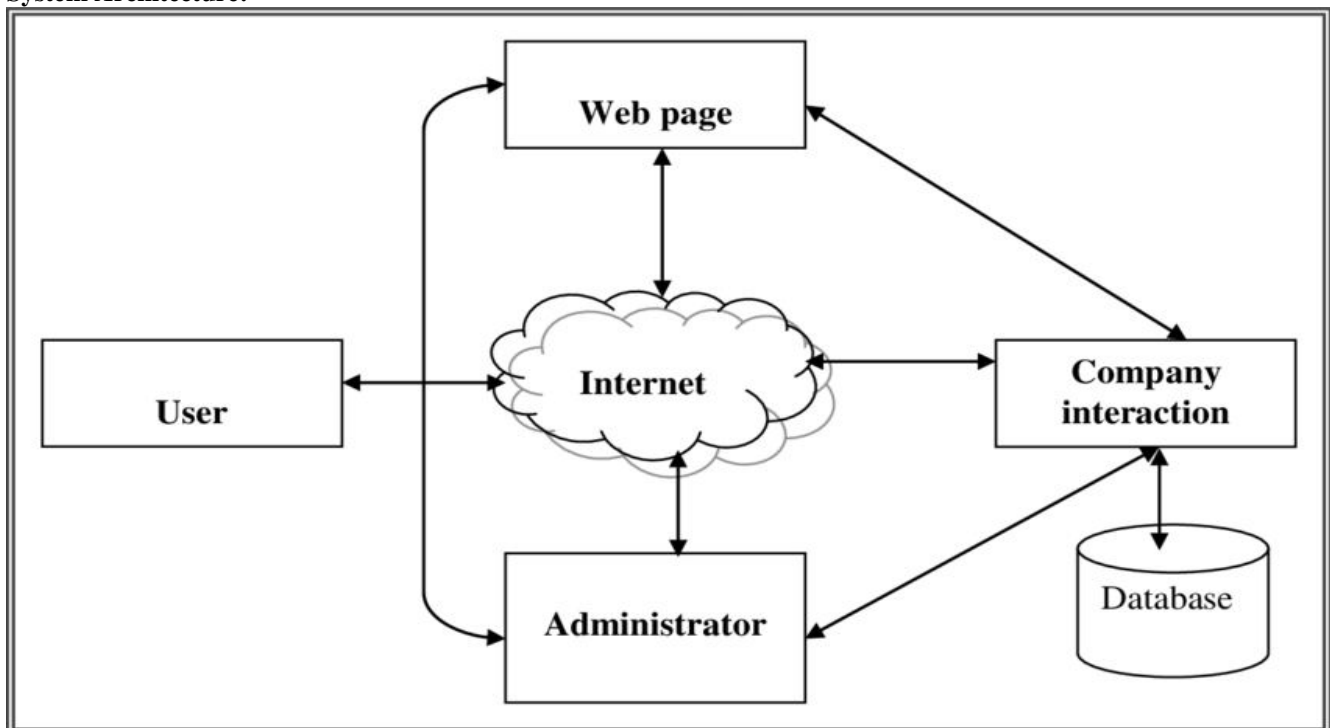
System Architecture:

Fig: System Architecture

Advantages:

- Time saving:

    It saves us a colossal proportion of time. We can buy any of our favored things from our home just and need not visit the strip malls.

- Profitable:

Products can be purchased at any rate by buying on the web. It's on the grounds that onlinestores offer tremendous limits and rewarding proposals on the acquisition of every single item.

- Additional Profits:
  Item is uninhibitedly sent, conveyed to our homes with free of cost without any deliverycharges. Also, on the off chance that we discover them not fit to our motivation, we can returnthem without buying whenever

- Shop any store around the world:
  Never again be constrained topographically. Numerous dealers don't has actual shops at eachplace in world. At the point when you shop on the web, anyone can buy it from any anonymousmarket registered with respective domain.

Algorithm:

Cloud Recommender systems are used by E-commerce sites to suggest products to their customers. The products can be recommended based on the top overall sellers on a site, based on the demo graphics of the customer, or based on an analysis of the past buying behavior of the customer as a prediction for future buying behavior.
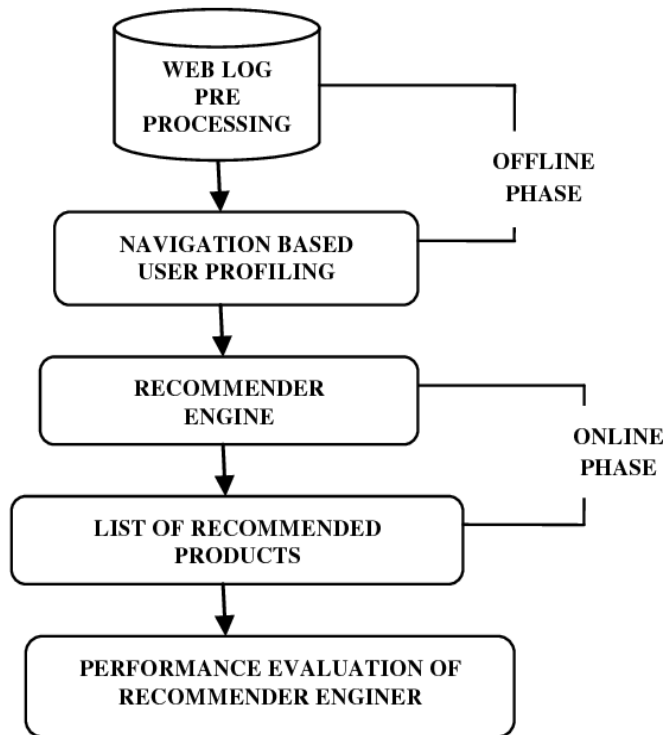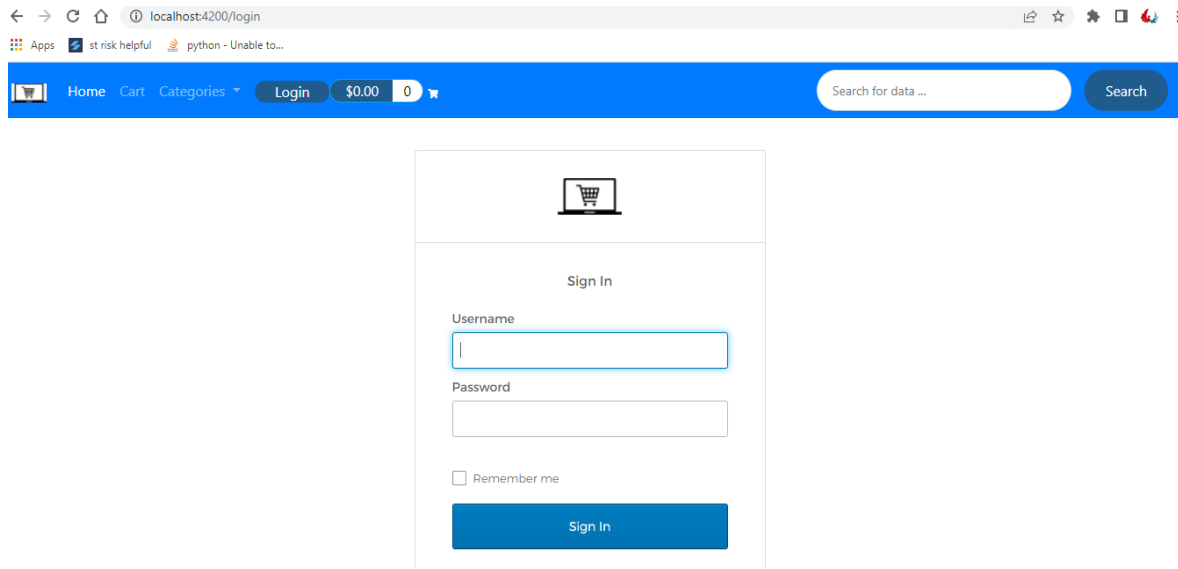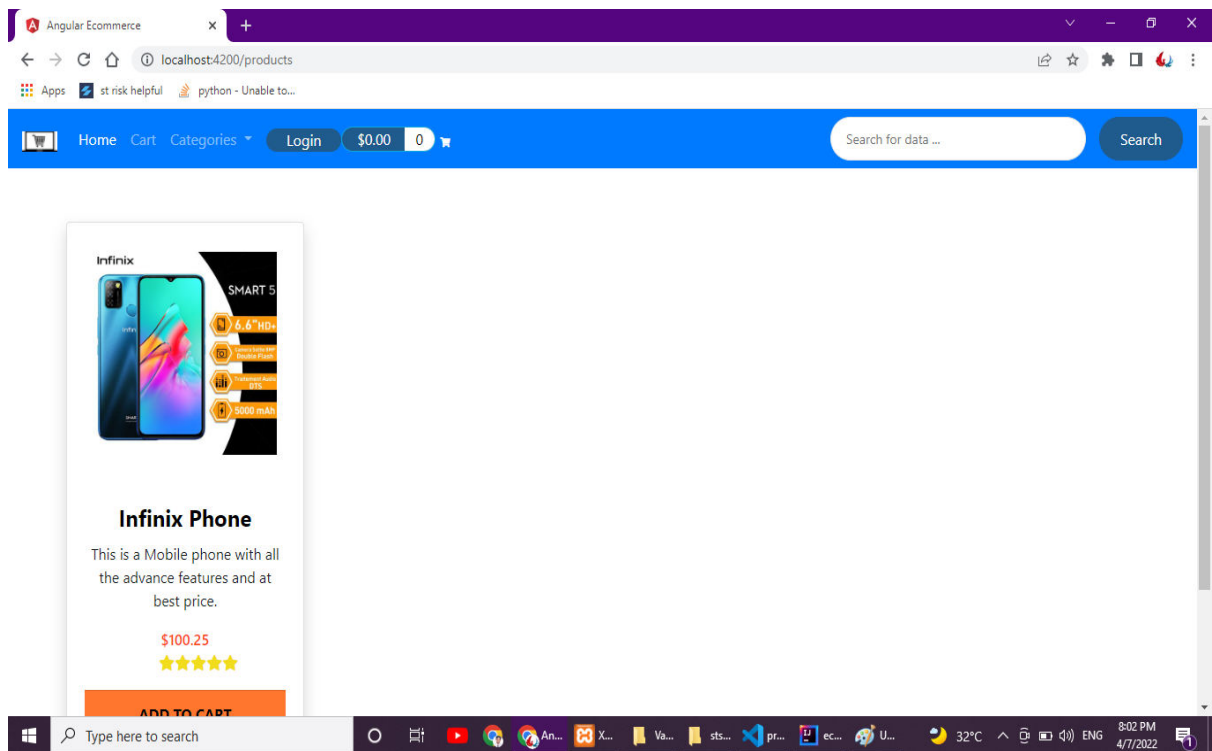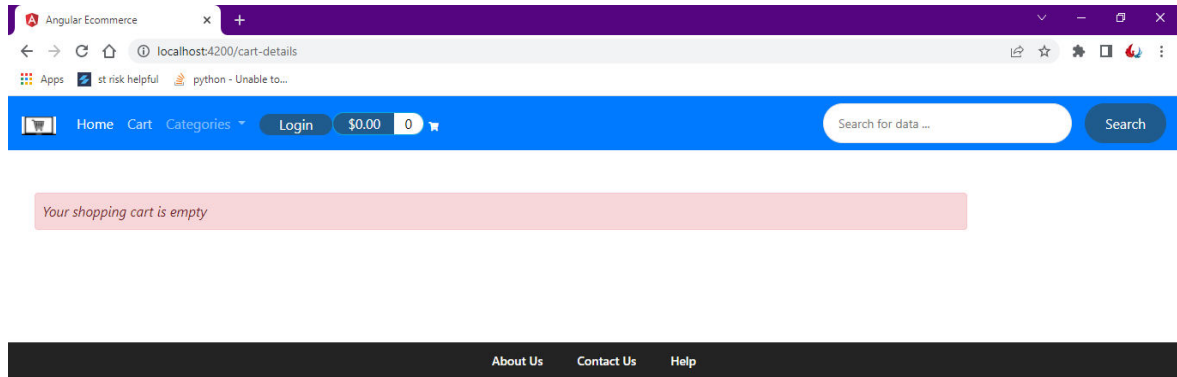

Fig: Algorithm
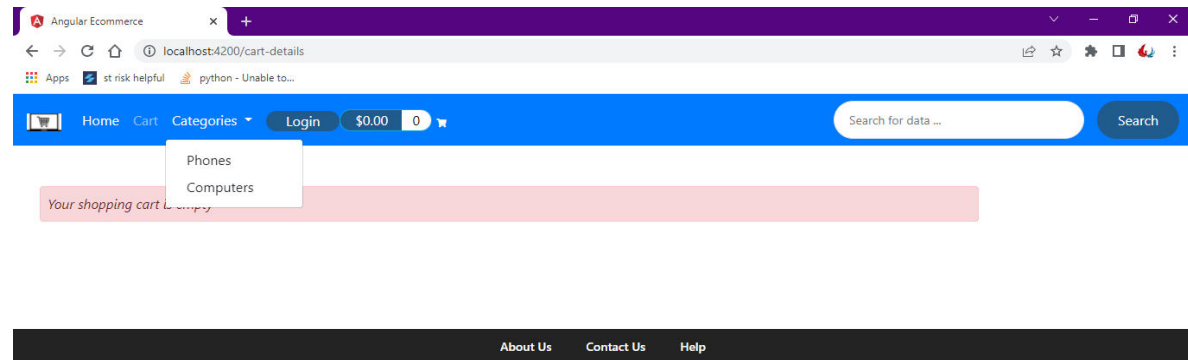
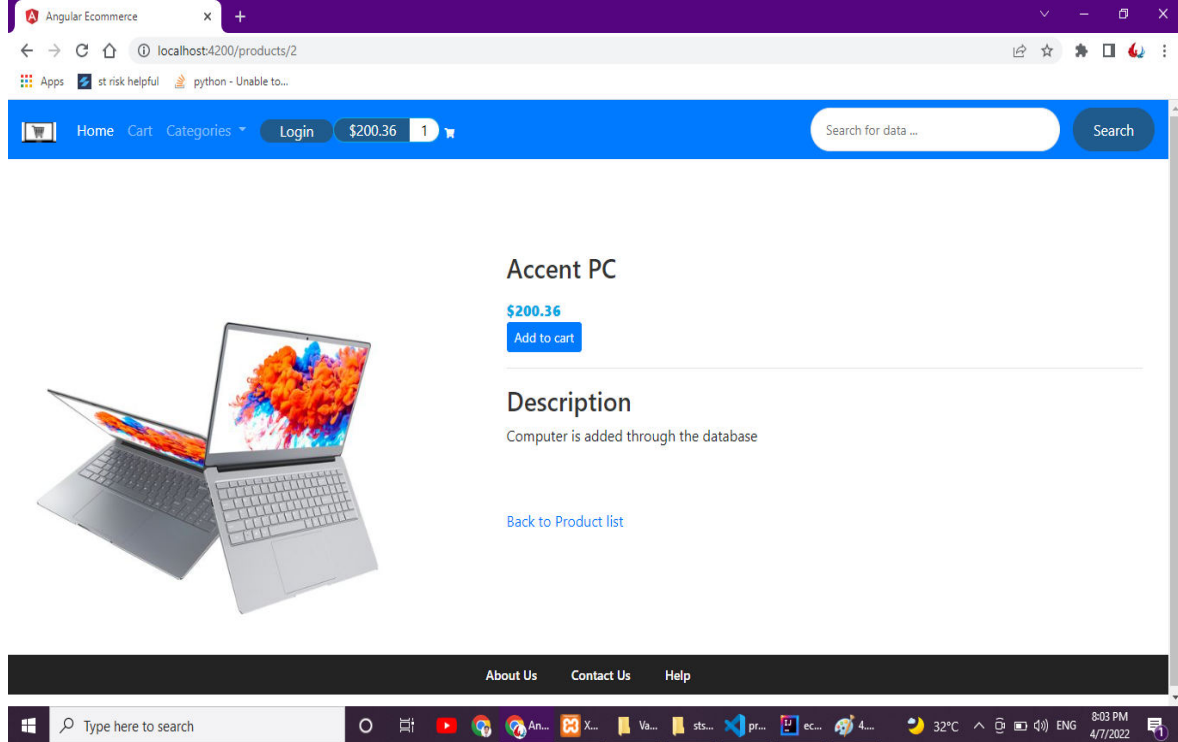## IV. RESULTS AND DISCUSSIONS

1) Sign Up

2) Product Listing

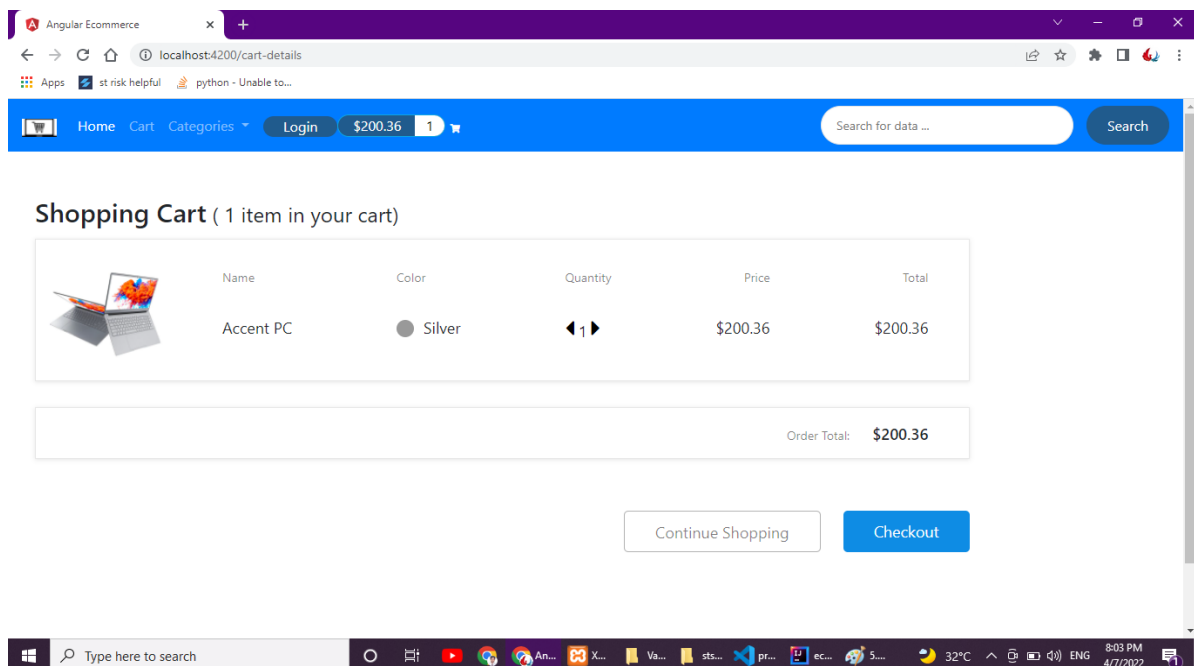### 3) Shopping Cart
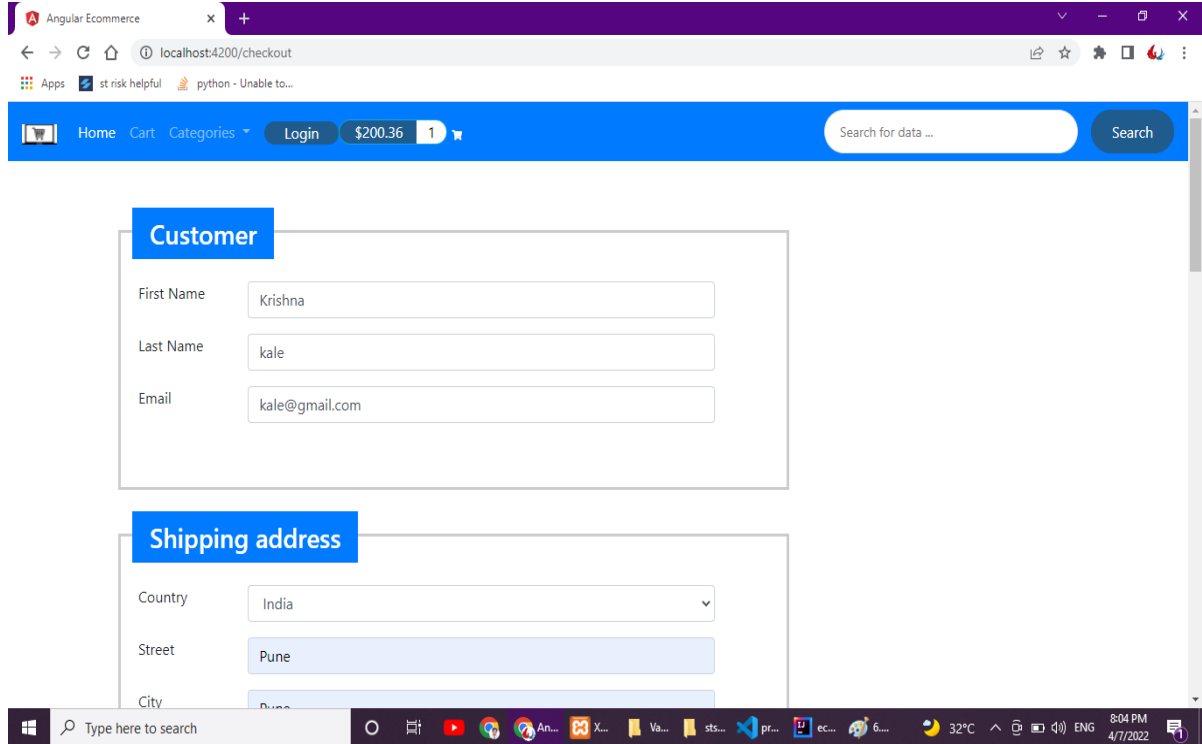

4) Selecting Product
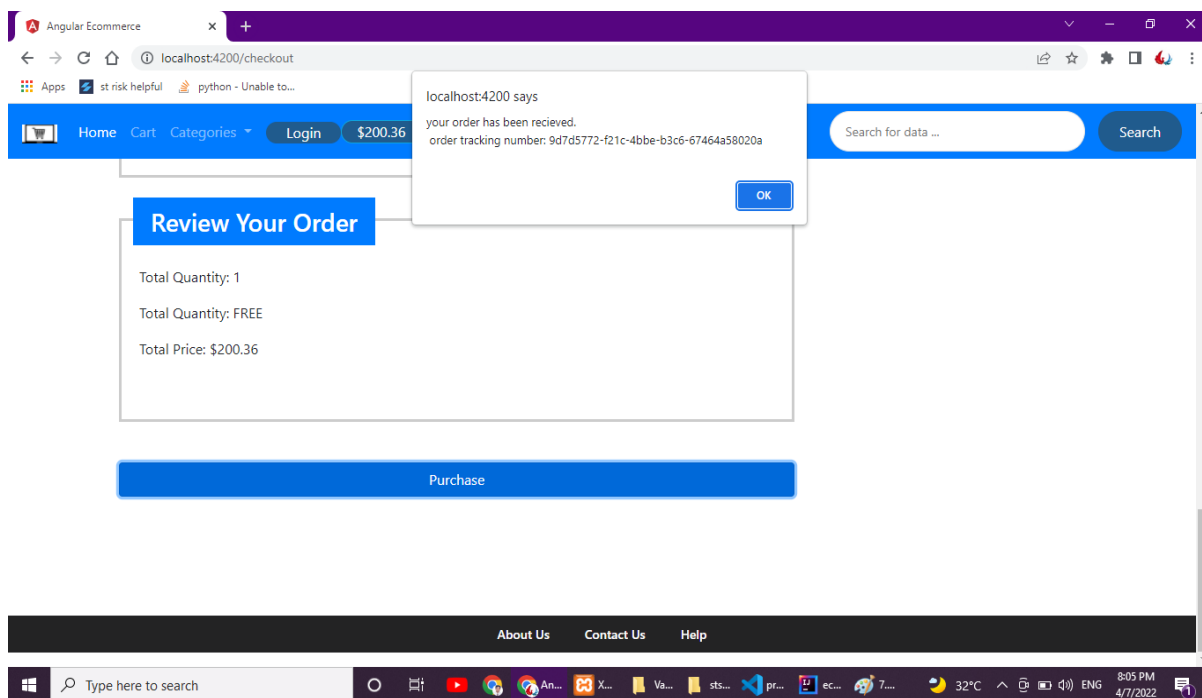
5) Product List

6) Shopping Cart with Product

7) Customer Details

8) Order review

IV.CONCLUSION AND FUTURE WORK

In this paper, Electronic commerce or e-commerce is one proof that technological advances have changed things from many aspects. The buying and selling activities that usually do face-to-face now have many alternative ways only with gadgets. With this, we can easily shop, choose the desired product, and visit many stores online. Many consumers are delighted with this digital shopping because everything can be anytime and anywhere is also very practical.For future work, the same system can be utilized with mask with different methods to analyze can be implemented for further identify more features.

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[6]Jadhav, M.A., Sawant, B.R. and Deshmukh, A., 2015. Single page application using angularjs. International Journal of Computer Science and Information Technologies, 6(3), pp.2876-2879.

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