University of Asia Pacific

Department of Computer Science and Engineering

Course Title – System Analysis and Design lab

Course Code - CSE 306

Project On **"UDDOG"**

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Introduction:

In Bangladesh, our social-economic structure is so poor. In our country, people want to do something for their livelihood. So here we want to introduce a platform where people can sell their goods and so many things through the internet.

Motivation:

In our country, there are so many people who can develop a quality full product and want to sell it but they can't reach the audience to except their surrounding people. Building a product is tough and when you want to sell it you need to showcase your product and need some kind of marketing but these people don't have enough money to invest in this area. So we want to build a platform where people/businessmen can open a shop without any hassle and can share their product through this platform also they can manage their inventory and accounts on this platform.

Previous works and their limitations:

There are already some existing organizations like our project, most notably:

- **Daraz**

Basically, it is a Bangladeshi Onlineshop. They work for product supply inside the country. they got foreign investment. Mainly, they send product to all place in our country

Link:https://www.daraz.com.bd/?spm=a2a0e.pdp.header.dhome.3670rzJtrzJtNV

- **Alibaba**

Basically, it is a Bangladeshi Onlineshop. They work for product supply inside the country. They got foreign investment. Mainly, they send product to all place in our country.

Link : https://www.alibaba.com/

- **Shopup**

Basically, ShopUp is Bangladesh's leading full-stack B2B commerce platform for small businesses. They work to use technology to supercharge businesses with easy access to B2B sourcing and last-mile logistics. Mainly, they send product to all place in our country

Link : https://shopup.com.bd/

- **Othoba**

Basically, it is a Bangladeshi Onlineshop. They work for product supply inside the country. they got foreign investment. Mainly, they send product to all place in our country

Link :https://www.othoba.com/

If we think of some online shops in Bangladesh, we will see that they have started their business with an established company. But we will give small entrepreneurs the opportunity to bring them under our website for a very small amount of money and give them the opportunity to do business so that they can find the right product for them. It is seen in the case of all the established online establishments in Bangladesh at present that their delivery is very time consuming, but in this case, we will try to do it very soon. It is often the case that buyers embezzle the company after paying for their products and do not give them the right product. But in our case it will be the case that when the buyer is happy to receive their product and the buyer tells us, we will pay the payment to the entrepreneur so there is no possibility of embezzlement of buyer's money.

Design: Entity Relationship Diagram (ERD)

An entity-relationship diagram (ERD) is crucial to creating a good database design. It is used as a high-level logical data model, which is useful in developing a conceptual design for databases. A user will normally log in with name, email, and password. Then, they will be divided depending on their needs. If he is willing to work or Enterpreneur then he will be enterpreneur and his user-id attribute will be Foreign Key of user table, and Entity between user table and enterpreneur will be 'is'. (User is a entrepreneur/customer)

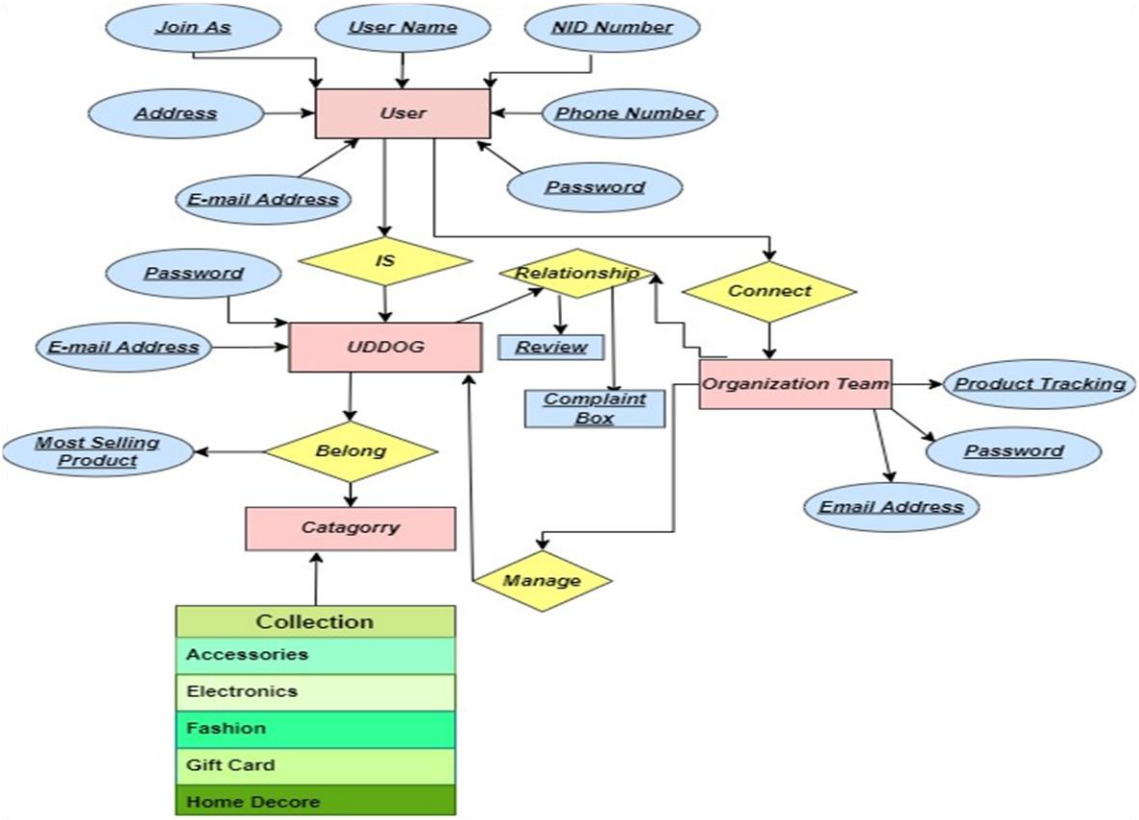

Figure:1

UDDOG belongs to Category. The E-mail, Password of UDDOG will be base user. (E.g., Normal customer, entrepreneur, organization team (that there will be more people to work)). And if a user in the table gives UDDOG input to the review, complaint box then the user will be connected to the organization team. This means that the Entity of the Organization team will be the Connection with the User. The organization team will arrange the people according to the problem. If so, the organization team will manage by their problem solving. in this diagram user to organization team and organization team to UDDOG has one to one

relationship.

Modern Tools used:

- HTML

HTML stands for Hyper Text Markup Language. It is the standard markup language for creating Web pages. It describes the structure of a Web page also consists of a series of elements. HTML elements tell the browser how to display the content.

- CSS

Cascading Style Sheets (CSS) is used to format the layout of a webpage. With CSS, we can control the color, font, the size of text, the spacing between elements, how elements are positioned and laid out, what background images or background colors are to be used, different displays for different devices and screen sizes, and much more!

- Bootstrap

We used bootstrap as it is a free and open-source framework for creating responsive layouts in web pages with fewer efforts. We used bootstrap to create buttons, navigation, dropdown, layout, and many other things since it contains HTML, CSS, and JS components.

- VS code

Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps.

- Django

Django is a high-level Python web framework that enables rapid development of secure and maintainable websites. We have used Django because it was another main requirement for this project.

Conclusion:

In our platform small and big both kinds of sellers can open their shop and we will maintain our warehouse so that we can check product quality and we will manage the delivery system so it be faster and our customer will be so happy. We will manage accounts and transitions so that our sellers can easily manage and withdraw their accounts. Though it is our first project so we planned many things but as we are in amateur level in, we programming and also due to shortage of time we could able to implement all the features. However, we will try our level best to implement rest of the features.

Appendix A (CEP Mapping):

Ks	Attribute	How Ks are addressed through the project	COs	POs
K3	Eng. Fundamentals	We learnt Object oriented programming and Django for our project and we implemented it in our project	CO1	PO1
K4	Specialist knowledge	We used Django Framework	CO4	PO1
K5	Engineering Design	We used Entity Relationship diagram, Data Flow diagram, USE Case Diagram	CO2	PO3
K7	Comprehensions	With the help of our platform, we will give facilities for the entrepreneur people and, in this way, we will reduce the unemployment problem which will help them to become economically solvent.	CO3	PO (7,8,11)

Ps	Attribute	How Ps are addressed through the project	COs	POs
P1	Depth of knowledge required	This project needs the study of related works having the similar objective as our project designing the project with database management & data mining model decide which CSE and Business Fundamentals to use among various choices to ensure sustainability Developing a system for the project.	CO1	PO (1)
P4	Familiarity of issues	This project solves an engineering problem that is profoundly connected with Computer Science and Engineering faculty. At this study level, we have not obtained adequate knowledge of database management & data mining.	CO2	PO3
P6	Extent of stakeholder involvement and level of conflicting requirements	A diverse group of stakeholders (usually all the Job seekers/companies/entrepreneurs.) will be benefited from this project.	CO4	PO (8,9,10,11)
P7	Interdependence	Project involves two subsystems mainly: 1. Database management model & Data mining 2. Web Application	CO3	PO (6,7)

As	Attribute	How Ks are addressed through the project	COs	POs
A1	Range of resources	The project needs to engage diverse resources including individuals, money, data, and technology	CO1	PO1
A2	Level of interaction	A decent level of collaboration is required among the entrepreneur seekers and companies. and the Computer Science and Engineering faculty members.		
A4	Consequences for society and the environment	Through this project, entrepreneur will be able to find their desired platform online from home. As a result, gadding for entrepreneur seekers will be reduced to a	CO4	PO(8,9,10,11,12)

		minimum and companies will be able to hire product according to their exact requirements.		
A5	Familiarity	trying to reduce the mass unemployment problem in Bangladesh will be a new challenge for CSE students.	CO2	PO(3)

In addition to incorporating the above-listed POs, the educational institution may include additional outcomes in its learning programs. An engineering program that aims to develop the abovementioned POs must ensure that its curriculum encompasses all the desired elements of the knowledge profile, as presented in Table 1. The ranges of Complex Problem Solving and Complex Engineering Activities are given in Tables 2 and 3, respectively.

Table 1: Knowledge Profile

KOs	Attribute
K1	A systematic, theory-based understanding of the natural sciences applicable to the discipline
K2	Conceptually based mathematics, numerical analysis, statistics and formal aspects of computer and information science to support analysis and modeling applicable to the discipline
K3	A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline
K4	Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline
K5	Knowledge that supports engineering design in a practice area
K6	Knowledge of engineering practice (technology) in the practice areas in the engineering discipline
K7	Comprehension of the role of engineering in society and of the identified issues in engineering practice in the discipline: ethics and the engineer's professional responsibility to public safety; the impacts of engineering activity in economic, social, cultural, environmental and sustainability terms
K8	Engagement with selected knowledge in the research literature of the discipline

Engineering problems that involve wide-ranging or conflicting technical, engineering, and other issues, have no obvious solution, and require abstract thinking and originality in analysis to formulate suitable models are defined as complex engineering problems. The abilities to solve complex problems in engineering are essential in the curriculum of engineering education. The list complex engineering problems (P1 to P7) clarifies the definition of Complex Engineering Problem by establishing seven range, or characteristics, of problem-solving.

Table 2 (Existing): Range of Complex Problem Solving

	Attribute	Complex Engineering Problems have characteristic WP1 and some or all of WP2 to WP7
P1	Depth of knowledge required	Cannot be resolved without in-depth engineering knowledge at the level of one or more of WK3, WK4, WK5, WK6 or WK8 which allows a fundamentals-based, first principles analytical approach .
P2	Range of conflicting requirements	Involve wide-ranging or conflicting technical, engineering and other issues
P3	Depth of analysis required	Have no obvious solution and require abstract thinking and originality in analysis to formulate suitable models.
P4	Familiarity of issues	Involve infrequently encountered issues
P5	Extent of applicable codes	Are outside the problems encompassed by standards and codes of practice for professional engineering
P6	Extent of stakeholder involvement and level of conflicting requirements	Involve diverse groups of stakeholders with widely varying needs
P7	Interdependence	Are high-level problems that include many component parts or sub problems

There are five attributes of activities students can be involved in when solving Complex Engineering Problem. A Complex Engineering Activity or Project is that which has some or all of the following attributes.