DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
JATIYA KABI KAZI NAZRUL ISLAM UNIVERSITY, TRISHAL, MYMENSINGH, BANGLADESH

Date: 16-10-2022

1. **Name of the student**: Mehedi Khan Rakib
    Roll No.:   19102012
    Session: **2018-19**
    Name of the student: Sakib Ahmed Shahon
    Roll No.:   19102018
    Session: **2018-19**

2. **Programmed:** □PhD/□MPhill/□MS//☑BSc.

    Proposal for: □Thesis/☑Project

3. **Name of the Proposed Supervisor:** Dr. Tushar Kanti Saha

    Designation: ☑PROFESSOR / □ASSOCIATE PROFESSOR/ □ASSISTANT PROFESSOR / □LECTURER

4. **Tentative Title (Block Letters):** A WEB BASED SYSTEM FOR E-COMMERCE

5. **Background and present state of the problem:**

E-commerce, which stands for electronic commerce, is any business transaction that occurs through the internet. Simply put, e-commerce is the act of buying and selling online by individuals, businesses, or larger firms. Ecommerce operates in all the segments of the marketplace, i.e., it works on the levels of: consumer to consumer, business to business, consumer to business, and business to consumer.

It is important in broad access to customers, easy shopping experience, product review along with data collection and easy to scale. It is also often preferred because buyers can compare across stores, and look for better deals. Since having an online store instead of a physical store saves money and resources, businesses are more able to offer these discounts.

Now-a-days the demand for ecommerce sites is increasing all over the world tremendously. In this scenario, Bangladesh is not that far away from abroad. By knowing the importance of an ecommerce site with a huge scope, my project partner and I have decided to build an ecommerce website which can be able to fulfill all of the demands for any kind of users.

6. **Objectives with specific aims:**
    Objective:

    ●   Build an E-commerce website for a single business institution.

    ●   Provide a digital inventory management system for sales.

    ●   Provide a digital system for sales and business data analytics.

7. **Outline of Methodology & Experimental Design:**
    Methodology:
    ●   Gather requirements for the E-commerce website.
    ●   Classify the solution for requirements for the website.
    ●   Build a website by integrating all solutions and needs in a single platform
    ●   Test the website for possible errors and bugs
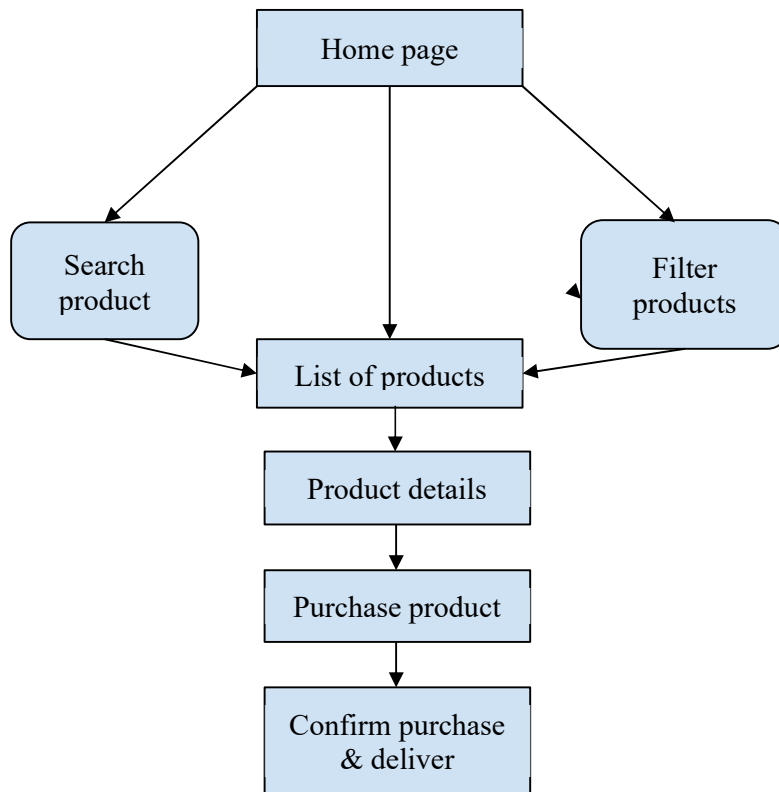   ●   Test the performance of the software and host online.

Experimental Design:

fig: Process for buying through E-commerce website

9. **Outcome:**
   - An E-commerce website for customers that can display products & take orders.
   - A software system for the physical store that can be used for inventory management.
   - Reduced management cost and accurate data analytics of sales.
   - Better customer experience and online presence for the store.

8. **References:**

[1] DeMatas, D. (2022, October 20). How To Start an Ecommerce Business From Scratch In 2022. Ecommerce CEO. https://www.ecommerceceo.com/start-ecommerce-business/

[2] Firestone, E. S. A. \. C. C. (2022, February 11). How To Start an Ecommerce Business: Build an Ecommerce Store (2022). Shopify. https://www.shopify.com/blog/ecommerce-business-blueprint

Signature of Department Head   **Signature of Supervisor**