**Automobile Equipment’s Dedicated E-commerce and Automobile Services (AutoLab)**

A Project Report Submitted to the

Department of Computer Science and Engineering, Hajee Mohammad Danesh Science and Technology University in partial fulfillment of the requirements for the degree of

B.Sc. (Engineering) in Computer Science and Engineering.

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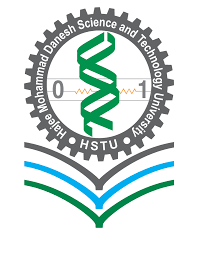
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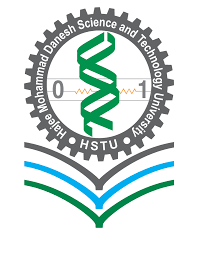
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**DECLARATION**

The work entitled “**Dedicated Automobile Equipment E-commerce and Automobile Service (AutoLab)**” has been carried out in the Department of Computer Science and Engineering, Hajee Mohammad Danesh Science and Technology University is original and conforms the regulations of this University.

We understand the University’s policy on plagiarism and declare that no part of this project has been copied from other sources or been previously submitted elsewhere for the award of any degree or diploma.

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**Abstract**

In today’s world, selling or buying products online has become much more demanding than traditional hand-to-hand selling or buying and it is increasing day by day. But not every individual can afford having an e-commerce site of their own or any software to manage their businesses even if they wish to digitalize their businesses. There are many individual renowned e-commerce websites and many individual companies who create and produce software solution for managing businesses. But this project is a platform where both the e-commerce site and software solutions (Business Associate) are combined together so that individuals or organizations can meet up for the purpose of business needs. This will create some opportunities for local or small online-based organizations as well as established organizations. Business associates will provide some features to maintain and manage businesses. The users will be able to find different organizations that can provide for their needs. In short, this system will work as an online shopping complex where different shops will have different e-commerce websites and software solutions in order to provide and manage any kinds of buyer’s requirements.

# Chapter 1 Introduction

## Background

AutoLab is an e-commerce website for selling dedicated automobile parts and equipment and also, it provides a platform for automobile (mainly car and motorcycle servicing and repairing) systems for running businesses. It brings together a marketplace (online) and a business associate. Online market place solution is an important application of web-based system owing to its use in many fields. The project presented here was developed after visit various e-commerce site and their features. An effective and real-time system based on MVC method is introduced in the project [1].

## Problem Statement

The E-commerce site has been widely developed for several decades. A lot of work has been done to handle related problems under different attributes, but there are a lot of scopes to upgrade it. Now in most e-commerce web-site, they mostly rely on selling finished products and for selling traditionally they will need another business associate software to run the business properly. It takes a few days extra for shipment of the product to the customer and also it takes extra time to get the payment because the e-commerce works like a middle man.

## Motivation

The main motivation that works behind the development of this project is that we will be able to improve our skills and learn many new skills which will be beneficial for us in the future. We have gone through many different project ideas and have selected this “Online Market Place Solution with Business Associates” project after analyzing thoroughly. In the analysis part of this project, at the time of analyzing existing systems, we have found out some drawbacks that we have faced personally. Another thing is that each existing e-commerce site has its single platform for doing business. So as a buyer, we have to enter each site to browse products of interest. We don’t even know sites that are not renowned as Daraz or Bagdoom for example. This led us to the need for a single platform for different types of e-commerce sites.

## Objective

Our main objective is to minimize the drawbacks of existing systems and provide some features to manage a business through our system. Another objective is to make one platform where a seller can run his business in both online and traditional ways, and also make the shipment faster, payment faster. There will be no middle man between buyer and seller. A seller gets a business associate to run his business properly. We are calling this “Business Associates” which will contain some features which will help to manage and maintain business.

# Chapter 2 Existing system Analysis

## 2.1 Overview

The systems that exist today are not similar to ours. As we can see there are lots of e-commerce websites and lots of different servicing websites worldwide to run their company online, but from the perspective of our country, we haven't found any dedicated solution for solving the issue and making a generalized platform for all automobile owners and drivers. So, we can see there is so much hassle to get genuine products and authenticated service at very reasonable prices. This leads us to the making of our system which will merge all the different systems into one platform.

## 2.2 Available Systems

As we see our system is a combination of two systems and there are no exact systems as our system so we study about two different types of system.

* E-commerce Website
* Automobile Service Platform

## 2.3 E-commerce Website

The core motivation that works behind the development of this project is that we will be able to improve our skills and learn many new skills which will be beneficial for us in the future. There are thousands of e-commerce systems running on the internet. Each of them has different working strategies, methods and platforms. We will now go through some of the existing systems available. Here the list of some existing systems.

* Star-tech
* Rokomary

## 2.3.1 Star-tech

Star-tech is one of the leading business websites for selling computers and digital accessories in Bangladesh. This website is owned and run by star-tech. They have an IT specialist group to look after the system. The concept of their business is to source digital products through giant Tech Hardware companies in their warehouses and sell locally at wholesale and retail prices. The system works fine and performs most of their requirement. But it cost them a lot because of a dedicated team working on that.

## 2.3.2 Rokomary (Suggest anything else than this!!)

Rokomary is also a leading business website trending in Bangladesh. It is a single platform only for buying and selling books. On this site, there is no issue with the quality of products however it only focuses on a single selling item which is books. Here the buyers also need to visit the above site/individual platform to buy books.

## 2.4 Automobile Service Platform

One of the main feature of our system is the Automobile service providing. Basically there a few website in our locality which deal with the onsite work to get a solution in online. A few companies worldwide for this service solution online efficiently. An example of a company that provide the solution by a similar website.

## 2.4.1 Pitstop

Pitstop is one of the few automobile service websites for providing car service and repair to India. Pitstop is an online vehicle repair platform that allows consumers to arrange car maintenance at a convenient time. It started in 2015 in the city Bengaluru at Karnataka state in India. Their total funding amount till 2021 is $9,702,517 in number of funding rounds: 5.

They have 12 quite pleasant number of investors.

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