Orchid International College

Bijaychowk, Kathmandu

CSC 367: NET Centric Computing

Proposal of Online automobile database system

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1. Abstract

Vehicles have been an integral part of mankind since the start of civilisation. The earliest form of vehicle were mounts, usually horses, which evolved to carriages and chariots. For until the 17th century, carriages and horses were the fastest and the most common form of vehicles until the steam locomotive, train, took over. Trains were the fastest form of travel but for more everyday travel, horses were still popular. This was the root of mankind's travel technique until the invention of internal combustion engine and the discovery of various crude oil reserves. Cars and motorcycles were invented soon and the shift of humans from horse to automobiles commenced. This shift also popularised the possession of personal vehicles and in the last century, automobile engineering has seen new heights. This has led to rapid growth of automobile industry and continuous improvement in automobile technology. The rapid change and shift of automobile industry has also given rise to interest in investments in this industry, thus increase in the automobile manufacturers. This increment then has led to higher and more diverse automobile production and in turn led to surplus of choices in the automobile industry.

2. Introduction

2.1. Background

Automobiles have been an integral element in day-to-day life of Nepalese people. Almost every household has at least one form of automobile in their house. Private vehicles have now been a big part of Nepalese society. This has led to a boom in supply of vehicles by automobile industry. The necessity of private vehicle in city-centric lifestyle, association of vehicle as a status quo, and the increase in purchasing power of Nepalese people are the major factors contributing to this increase in demand.

2.2. Problem statement

The sheer volume of vehicles in the Nepalese market has posted a big question of “What vehicle to buy?” The lack of reliable platform has created a big hassle and problem for buyers to choose their desired automobile. While there are platforms for this in Indian and Global market, Nepalese market does not have a proper platform to provide various automobile related information. At present buyers typically refer to blog posts which do not provide up to date information about the automobiles.

2.3. Objectives

1. To create an online platform that displays the automobile information
2. To create an online platform to add new automobile into database
3. To create a search feature to search automobiles based on brand

3. Study of existing systems

3.1. zigwheels.com

Zig wheels is an Indian platform which provides information about various automobiles currently in India. It provides various detailed information about new vehicles, discontinued vehicles, relaunched vehicles, and also provides a platform to buy and sell used vehicles. Information includes technical details, customer ratings and reviews, showroom details, and community forums.

3.2. cars.com

cars.com is an online platform based in USA. It provides detailed information about cars and also provides a feature to search for vehicles based on various parameters like makers, models, price, body, style, availability in said location, and so on. It is a specialised platform for searching new and used cars all over USA.

3.3. autotrader.co.uk

This platform is a UK based platform to buy and sell new and used vehicles. It also allows for searching of vehicles based on various parameters, automobile news, buying guides, and various details of automobiles available in the United Kingdom.

3.4. webbikeworld.com

The motorcycle information platform for Europe which provides information about new motorcycles, motorcycle news, Moto GP news, motorcycle details and reviews, motorcycle helmet details and reviews, and a motorcycle searching feature.

4. Tools to be used

4.1. Front-end

1. Hyper-Text Markup Language (HTML)
2. Cascading Style Sheets (CSS) with Syntactically Awesome Style Sheets (SASS) pre-processor
3. JavaScript
4. Razor view engine

4.2. Back-end

1. SQL Server