

Auto Zone Web Site

Abstract

Auto Zone Is a project is to have a trusted website that you can buy car parts from the website will have a new parts imported from outside of the country the parts are new to Jordan market where it's a new feature in Jordan maybe never done before. I identified the challenges and the solutions, Then we collected the requirements for building the site and were collected by a questionnaire and then we identified the functional and nonfunctional requirements. Then we use all requirements to build use case and sequence diagram, and took Data and we have created data then founded databases and tables of data and designed Screen to the site and we started implementing the project and used the language of JavaScript to build the site with the help of The MERN stack which is MongoDB for the database with Exepress And ReactJS and nodeJS .

Chapter 1: Introduction

Introduction

Tech News is a site specialized in technology news, it is directed to all people interested in technology and the latest developments and the most important new updates.

System Goals

The goal of building the site is to:

1. To Be the first one selling parts and accessories new to the market only available at the website
2. A trusted website selling these types of products which is maybe the only one

Feasibility Study

Challenges

1. A new method to buy car parts from the internet not every one is familiar with .

Proposed Methods

1. Make people more interested to customize there cars.

The Method Adopted in The Design of The System

1. System Design: In this stage, the complete architecture of the desired system is designed. The system is conceived as a set of interacting subsystems that in turn is composed of a hierarchy of interacting objects, grouped into classes.
2. System design is done according to both the system analysis model and the proposed system architecture.

Analyze & Requirement

In the first week I analyze and gather information to gather requirements.

Chapter 2: Requirement

Analysis

Requirements analysis, also called requirements engineering, is the process of breaking a complex topics or substance into smaller parts in order to gain a better understanding of it. These features, called requirements, must be quantifiable, relevant and detailed. In software engineering, such requirements are often called functional specifications. Requirements analysis is an important aspect of project management.

Requirements analysis involves frequent communication with system users to determine specific feature expectations, resolution of conflict or ambiguity in requirements as demanded by the various users or groups of users, avoidance of feature creep and documentation of all aspects of the project development process from start to finish. Energy should be directed towards ensuring that the final system or product conforms to client needs rather than attempting to mold user expectations to fit the requirements.

User Requirement

This field of indoor and outdoor maintenance and all services with just one click with entering the problem (The main features:)

A-Front Web Site:

1. Login and register page for new user or author
2. Category to filter products were user can find it in the navbar

B-Back Web site:

1. Admin dashboard to add / delete / edit the products

Functional requirement

1. log in / register page
2. Dashboard page to control the products
3. Home page to show all category and products
4. List of categories to show specific products

Non-Functional Requirement

1. External Requirement
 - The web site has Admins to create / edit / delete products.

2. Organizational Requirement

- a. Require any OS (such as Windows (XP, 7, 8.1, 10) Linux and Mac). Etc.
- b. Web browser (chrome, Firefox, Opera, Explorer).
- c. Connected to the Internet.
- d. To Program Web pages I used the MERN stack React and connect it with mongoDB, Web pages CSS, Html.

System requirement

1. The web site must be compatible with pc's and mobiles devises.
 - a. To achieve all these functions a computer or mobile devise must be available and connected to the internet.
 - b. The version or model of the device does not matter, but defiantly needs at least a web browser.
2. Programming languages used
 - HTML (Hyper Text Markup Language) is the most basic building block of the Web.
 - CSS is a language that describes the style of an HTML document.
 - JavaScript (JS) is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions.

Use Case Description

1. Actors:

a. Human actors: Admin, Customer.

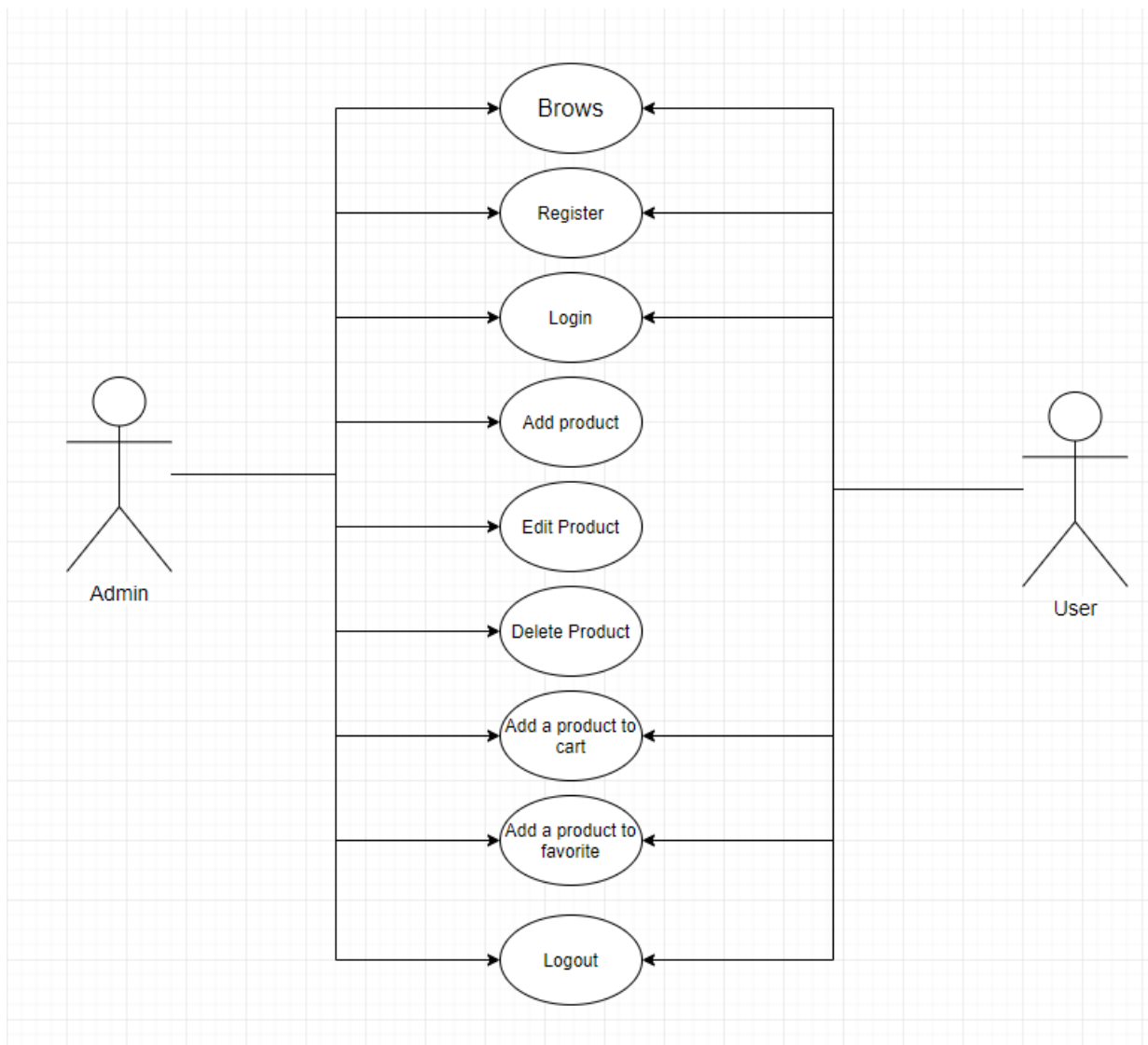
Use case Number	1
Use case name	Browsing
Participation actor	1. User 2. Admin
Pre-condition	Internet connection
Flow of events	1. Open web site 2. Browse the web site
Post-condition	Retrieving, presenting and traversing information resources
Quality Requirements	Speed site browsing

Use case Number	2
Use case name	sign up for Users
Participation actor	1. Customer
Pre-condition	Internet connection
Flow of events	1. open website 2. click on Register 3. insert information 4. check information 5. send to server
Post-condition	user confirmation

Quality Requirements	<ol style="list-style-type: none"> 1. User Name must be unique name. 2. Must enter all the information.
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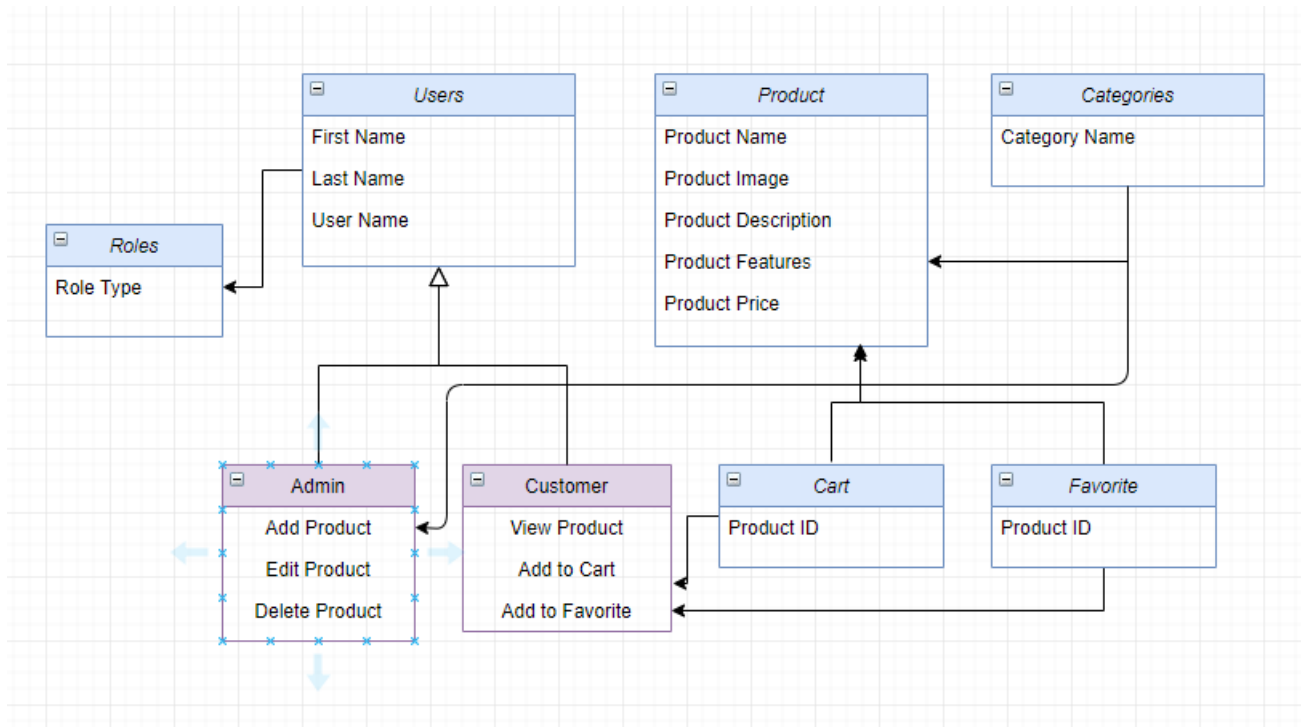
Use case Number	3
Use case name	Add Product
Participation actor	1. Admin
Pre-condition	Admin Role
Flow of events	<ol style="list-style-type: none"> 1. Go to dashboard 2. Click Add Product 3. Insert all data
Post-condition	Admin publish the Product
Quality Requirements	1. Just the admin can add a product

Use Case Diagram



Chapter 3: Design

Class diagram



Data Base Tables

Data Base: Table Users

Data Name	Type
Id	big Increments
First name	String
Last name	String
User name	String
Created at	timestamp
password	hash

Role	string
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Data Base: Table categories

Data Name	Type
Id	big Increments
Name	String

Data Base: Table Products

Data Name	Type
Id	big Increments
Product Image-Name	String
Product Name	String
Product Description	String
Product Featuer 1	String
Product Featuer 2	String
Product Price	String

Data Base Tables

Data Base: Table Cart

Data Name	Type
Id	big Increments
Product ID	String

Data Base Tables

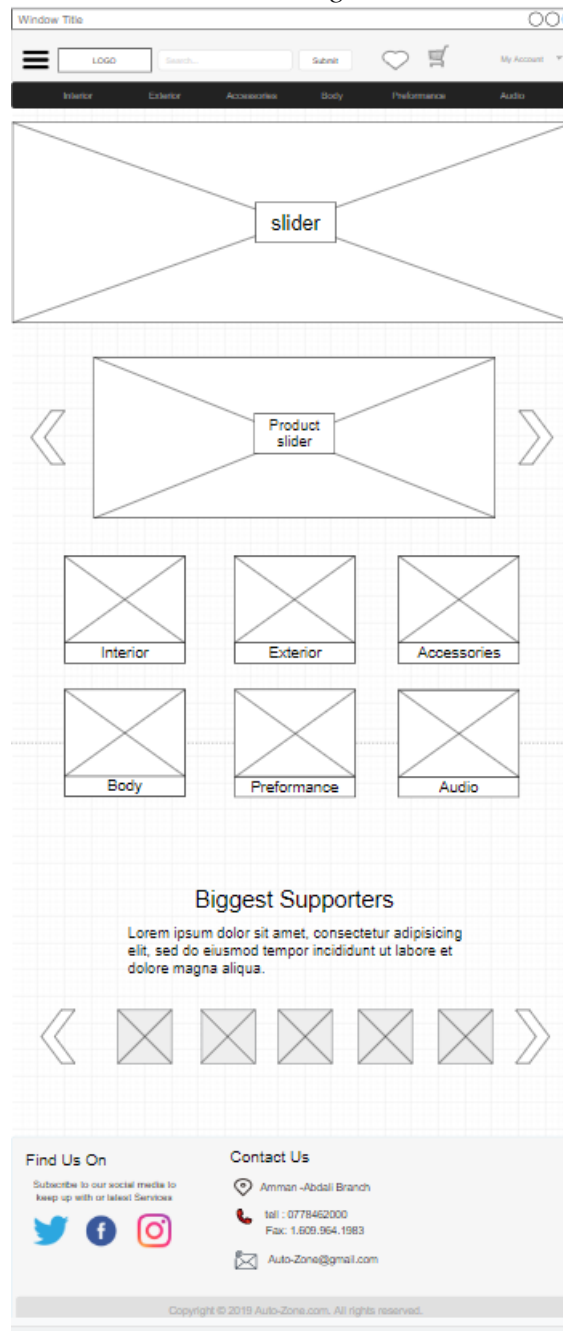
Data Base: Table Favorites

Data Name		Type
Id		big Increments
Product ID		String

Mock-ups

Website Mock-ups

Home Page



Products Page



Favorites Page





Cart Page

Profile page

Auto-Zone/Product

LOGO

Search...

Submit

My Account

InteriorExteriorAccessoriesBodyPreformanceAudio

User Name

First Name

Last Name

If Role is Admin

Visit Admin Dashboard

Admin Dashboard

Find Us On

Subscribe to our social media to keep up with or latest Services

Contact Us

Amman -Abdali Branch

tell : 0778462000
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Admin Dash Board

Auto-Zone/AdminDashboard

LOGO

Search...

Submit

My Account

InteriorExteriorAccessoriesBodyPreformanceAudio

Product Image

Choose Image

Product Name

Product Description

Product Features

Product Feature 1

Product Feature 2

Product Price

Product Category

Option 1

Add Product

Find Us On

Subscribe to our social media to keep up with or latest Services

Contact Us

Amman -Abdali Branch

tell : 0778462000

Fax: 1.809.984.1983

Auto-Zone@gmail.com

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Register page

Page 1

https://www.draw.io

Register

First Name

Ammar

Last Name

Zyoud

User Name

Ammar

Password:

SIGN UP

Login page

Page 1

https://www.Auto-Zone.com

Sign In

User Name:

Ammar

Password:

SIGN IN

[Forgot Password?](#)

New User

SIGN UP

Technologies Used To build the project

The MERN Stack:

- 1- MongoDB for the database
- 2- Exepress
- 3- NodeJS for the server
- 4- ReactJS