



CLIENT PROJECT

Car Parts Catalog Portal That Searches 5 Million+ Parts

An automotive spare parts business in India

IN SHORT

An automotive spare parts business's users now find one part among 5 million-plus records by make and model, part number or description, on any device.

THE CHALLENGE

The business held a catalog of more than 5 million car parts. Users needed to find the right part by make and model, part number or description. Pages had to stay quick at that size, and the business wanted to know what people searched for.

WHAT WE BUILT

We built a React front end on a Node.js and Express API, with a MongoDB database designed for the full catalog. Users browse with images, filter by make and model, or search with auto-suggestions. Page views and search queries are logged, and access is limited to designated users.

AT A GLANCE

INDUSTRY

E-commerce

SERVICES

Web application development

Custom software development

PLATFORMS

Web

BUILT WITH

React, Node.js, Express.js, MongoDB, AWS, GitHub Actions, Git

Read the full project: <https://itechnosol.com/our-work/car-parts-catalog-portal/>

THE RESULT

Designated users can find a specific part in a catalog of more than 5 million records from a phone or desktop. The business can see which parts and search terms get the most attention.

KEY FEATURES

- **Make and model selector**
Users narrow the catalog by choosing their car's make and model.
- **Auto-suggest search**
The search bar suggests matches as the user types.
- **Part number and description search**
Advanced search finds parts by exact part number or by words in the description.
- **Image-led browsing**
Users can browse the whole catalog with part images.
- **Tabular results**
Matches appear in a table with part number, description, quantity and remarks.
- **Built for 5 million-plus records**
The back end and database were designed to hold and query the full catalog.
- **Search and page analytics**
The portal records page views and search queries to show what users look for.
- **Role-based access**
Only designated users can sign in and use the catalog.

Planning something similar?

Send us a few lines about your project. A founder replies within 4 business hours with an indicative cost and timeline, free and with no obligation.

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