EDITION
November 2026

iTechnoSol Inc.

PROJECT OVERVIEW

Parts catalog search across 5 million+ records for an auto parts firm

Users find one part by make and model, part number or description on the web, from a phone or a desktop.



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CLIENT	INDUSTRY	PLATFORMS
An automotive spare parts business in India	**E-commerce**	**Web**

THE REQUIREMENT

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.

THE OUTCOME

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.

CLIENT PROJECT

What it does

In short: found by make, model, part number or description.

Make and model selector

Users narrow the catalog by choosing their car's make and model.

Part number and description search

Advanced search finds parts by exact part number or by words in the description.

Tabular results

Matches appear in a table with part number, description, quantity and remarks.

Search and page analytics

The portal records page views and search queries to show what users look for.

Auto-suggest search

The search bar suggests matches as the user types.

Image-led browsing

Users can browse the whole catalog with part images.

Built for 5 million-plus records

The back end and database were designed to hold and query the full catalog.

Role-based access

Only designated users can sign in and use the catalog.

BUILT WITH

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

PLATFORMS

Web

SERVICES

- Web application development
- Custom software development

WORKING WITH US

How a project runs

The same four stages for every project, with working software early and the option to stop after any stage.

STAGE 1

Audit

We map the current process and agree on a first release.

STAGE 2

Trial

A working version on your data before the full build.

STAGE 3

Build

Weekly working demos, integrated with your systems.

STAGE 4

Go live

Rollout to one team, then company-wide.

INCLUDED IN EVERY QUOTATION

- Written scope with dated milestones
- Testing before delivery
- Documentation for your team
- Weekly working demo
- Code in your repository from day one
- Free bug fixes in the warranty period after launch

OUR PROMISES

- **NDA before anything**
- **You own all the code**
- **Your first call is with a founder**

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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