EDITION

November 2026

iTechnoSol Inc.

PROJECT OVERVIEW

Quality inspection system for a German glass inspection company

Shifts, incoming material checks and six inspection stages on the web, with out-of-tolerance readings flagged at entry and a reason on every change.



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CLIENT

A German glass quality inspection company that audits glass manufacturers

INDUSTRY

Manufacturing

PLATFORMS

Web

THE REQUIREMENT

A German glass quality inspection company checks insulating glass at many points, from incoming glass to the finished, gas-filled unit, across the manufacturers it audits. Each material has its own tolerances, and out-of-range readings had to be caught at entry, with any correction explained.

WHAT WE BUILT

We built a web application on Node.js, Angular and MongoDB with shift management, client, supplier and material masters, and six inspection forms. Readings are checked against material tolerances, can be saved during the day and submitted later, and corrections need a recorded reason.

THE OUTCOME

The software was delivered and is live. Shifts, incoming material and every inspection stage sit in one system, out-of-tolerance readings are flagged at entry, changes carry a reason, and client users work within their assigned rights.

6

inspection forms, from incoming glass to gas fill

CLIENT PROJECT

What it does

In short: out-of-tolerance readings flagged at entry.

Shift management

Shifts are managed in the same system as the inspections, so each day's checks sit with the shift that ran them.

In-process tests

Daily tests after the glass is cut and after it is processed.

Tolerance alerts with reasons

Readings outside a material's tolerance fire a trigger, and any change to the data needs a recorded reason.

Role-based access

Each user works within the features their role allows, and client users get the rights that fit them.

Incoming material checks

Incoming glass and semi-finished products are inspected and recorded as each delivery is received.

Finished unit and gas-fill tests

Daily tests on the finished insulating glass and on the degree of gas filling.

Save now, submit later

Inspectors save readings at intervals through the day and submit the form when it is complete.

Filtered reports

Reports built around the details and filters the inspection company asked for.

BUILT WITH

Angular · Node.js · Express.js · MongoDB · Ubuntu cloud server · Nginx · 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.

EMAIL
info@itechnosol.com

PHONE AND WHATSAPP
+91 97220 14000

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