



CLIENT PROJECT

Glass Quality Inspection Software for a German Inspection Firm

A German glass quality inspection company that audits glass manufacturers

IN SHORT

Web software for a German glass inspection company: shifts, incoming material checks, six inspection stages and tolerance alerts with reasons.

6

inspection forms, from incoming glass to gas fill

THE CHALLENGE

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.

AT A GLANCE

INDUSTRY

Manufacturing

SERVICES

Web application development

Custom software development

Read the full project: <https://itechnosol.com/our-work/glass-quality-inspection-software/>

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.

PLATFORMS

Web

BUILT WITH

Angular, Node.js, Express.js, MongoDB, Ubuntu cloud server, Nginx, GitHub Actions, Git

THE RESULT

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.

KEY FEATURES

- **Shift management**
Shifts are managed in the same system as the inspections, so each day's checks sit with the shift that ran them.
- **Incoming material checks**
Incoming glass and semi-finished products are inspected and recorded as each delivery is received.
- **In-process tests**
Daily tests after the glass is cut and after it is processed.
- **Finished unit and gas-fill tests**
Daily tests on the finished insulating glass and on the degree of gas filling.
- **Tolerance alerts with reasons**
Readings outside a material's tolerance fire a trigger, and any change to the data needs a recorded reason.
- **Save now, submit later**
Inspectors save readings at intervals through the day and submit the form when it is complete.
- **Role-based access**
Each user works within the features their role allows, and client users get the rights that fit them.
- **Filtered reports**
Reports built around the details and filters the inspection company asked for.

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.

info@itechnosol.com · +91 97220 14000 · itechnosol.com/request-a-quote/