

Tech Radar

An interactive catalog of technology scenarios with multi-criteria filtering, radar visualization, maturity matrix and detailed scenario cards.

Platform purpose

Tech Radar transforms a large set of technology initiatives and business criteria into a clear exploration and decision-support tool. Users can search and filter scenarios, compare market maturity, organizational readiness and solution potential, and then open the detailed context of a selected scenario.

Architecture and functional layers

1

Relational scenario model

Each scenario is connected to a domain, business unit, process, challenge and measurable maturity and potential criteria.

2

REST service and validation

The Spring Boot service exposes JSON operations for data access, filtering and scenario management, with server-side input validation.

3

Search and combined filters

Business and technology filters work together with value ranges, text search, sorting and pagination.

4

Radar and maturity matrix

SVG visualizations communicate scenario position, status and potential, with synchronized selection across points, list and detail card.

5

Component-based user interface

Vue and Quasar components separate filters, radar, matrix, legend and scenario card while adapting the experience to different screens.

Technology framework

Java 8 / Spring Boot 2.7	Spring Web	Spring Data JPA
Spring Data LDAP	Hibernate Validator	Oracle Database
Vue 3 / Vue Router	Quasar 2	JavaScript / Sass
SVG visualization	REST / JSON	Responsive design

Solution value

A unified visual model shortens the path from a broad idea catalog to a relevant set of scenarios. The architecture supports reliable persistence, consistent validation and independent evolution of analytical views and service functions.