

**frontend/src/components/dashboard/DashboardDirector.jsx**

```
1  /**
2   * Dashboard DIRECTOR (Level 5) - Dashboard für Geschäftsführung
3   *
4   * Dashboard executivo completo:
5   * - Visão geral de toda a empresa
6   * - Todos valores financeiros
7   * - Relatórios executivos completos
8   * - Múltiplos gráficos estratégicos
9   * - Análise por departamento
10  *
11  * Vollständiges Executive Dashboard:
12  * - Unternehmensweite Übersicht
13  * - Alle Finanzwerte
14  * - Vollständige Executive-Berichte
15  * - Mehrere strategische Diagramme
16  * - Analyse nach Abteilung
17  */
18
19  import { useState, useEffect } from 'react';
20  import {
21    Box,
22    Card,
23    CardContent,
24    Typography,
25    Grid,
26    CircularProgress,
27    Alert,
28    Divider,
29    Chip
30  } from '@mui/material';
31  import {
32    Description as ContractIcon,
33    Warning as WarningIcon,
34    Notifications as AlertIcon,
35    CheckCircle as ApprovalIcon,
36    AttachMoney as MoneyIcon,
37    People as PeopleIcon,
38    Business as BusinessIcon,
39    TrendingUp as TrendIcon
40  } from '@mui/icons-material';
41  import {
42    PieChart, Pie, Cell, BarChart, Bar, LineChart, Line,
43    XAxis, YAxis, CartesianGrid, ResponsiveContainer, Legend, Tooltip
44  } from 'recharts';
45  import dashboardApi from '../../services/dashboardApi';
46
47  const COLORS = ['#2563EB', '#10B981', '#F59E0B', '#EF4444', '#6B7280', '#8B5CF6',
48    '#EC4899'];
49
50  function StatCard({ title, value, subtitle, icon: Icon, color = 'primary', isCurrency =
  false }) {
    const formattedValue = isCurrency && value !== null && value !== undefined
```

```

51     ? new Intl.NumberFormat('de-DE', { style: 'currency', currency: 'EUR' }).format(value)
52     : value;
53
54     return (
55       <Card elevation={3} sx={{ height: '100%' }}>
56         <CardContent>
57           <Box sx={{ display: 'flex', justifyContent: 'space-between', alignItems: 'flex-
58 start', mb: 2 }}>
59             <Typography variant="h6" color="text.secondary" sx={{ fontWeight: 500, fontSize:
59 '0.95rem' }}>
60               {title}
61             </Typography>
62             <Icon sx={{ color: `${color}.main`, fontSize: 36 }} />
63           </Box>
64           <Typography variant="h3" sx={{ fontWeight: 700, mb: 1, color: `${color}.main`,
65 fontSize: isCurrency ? '1.5rem' : '2.25rem' }}>
66             {formattedValue !== null && formattedValue !== undefined ? formattedValue : '-'}
67           </Typography>
68           {subtitle && (
69             <Typography variant="body2" color="text.secondary">
70               {subtitle}
71             </Typography>
72           )}
73         </CardContent>
74       </Card>
75     );
76   }
77
78   export default function DashboardDirector() {
79     const [stats, setStats] = useState(null);
80     const [loading, setLoading] = useState(true);
81     const [error, setError] = useState(null);
82
83     useEffect(() => {
84       const fetchStats = async () => {
85         try {
86           setLoading(true);
87           setError(null);
88           const data = await dashboardApi.getStats();
89           setStats(data);
90         } catch (err) {
91           console.error('Fehler beim Laden der Statistiken:', err);
92           setError('Fehler beim Laden der Dashboard-Statistiken.');
```

```

101     <Box sx={{ display: 'flex', justifyContent: 'center', alignItems: 'center',
minHeight: '60vh' }}>
102         <CircularProgress size={60} />
103     </Box>
104 );
105 }
106
107 if (error) {
108     return (
109         <Box sx={{ p: 3 }}>
110             <Alert severity="error">{error}</Alert>
111         </Box>
112     );
113 }
114
115 const statusData = stats?.contracts_by_status
116   ? Object.entries(stats.contracts_by_status).map(([status, count]) => ({
117       name: status,
118       value: count
119   }))
120   : [];
121
122 const typeData = stats?.contracts_by_type
123   ? Object.entries(stats.contracts_by_type).map(([type, count]) => ({
124       name: type,
125       quantity: count
126   }))
127   : [];
128
129 const departmentData = stats?.contracts_by_department
130   ? Object.entries(stats.contracts_by_department).map(([dept, count]) => ({
131       departamento: dept,
132       contracts: count
133   }))
134   : [];
135
136 return (
137     <Box sx={{ p: 3, width: '100%', mx: 'auto' }}>
138         {/* Executive Header */}
139         <Box sx={{ display: 'flex', justifyContent: 'space-between', alignItems: 'center',
mb: 3 }}>
140             <Box>
141                 <Typography variant="h4" sx={{ mb: 0.5, fontWeight: 600 }}>
142                     Executive Dashboard
143                 </Typography>
144                 <Typography variant="body1" color="text.secondary">
145                     Company Overview
146                 </Typography>
147             </Box>
148             <Chip
149                 label="Director"
150                 color="primary"
151                 icon={}<BusinessIcon />
152             />

```

```
153     </Box>
154
155     { /* Main KPIs - Row 1 */ }
156     <Grid container spacing={3} sx={{ mb: 3 }}>
157       <Grid item xs={12} sm={6} md={3}>
158         <StatCard
159           title="Total Contracts"
160           value={stats?.total_contracts}
161           subtitle="Across entire company"
162           icon={ContractIcon}
163           color="primary"
164         />
165       </Grid>
166
167       <Grid item xs={12} sm={6} md={3}>
168         <StatCard
169           title="Active Contracts"
170           value={stats?.active_contracts}
171           subtitle="In progress"
172           icon={TrendIcon}
173           color="success"
174         />
175       </Grid>
176
177       <Grid item xs={12} sm={6} md={3}>
178         <StatCard
179           title="Total Monthly Value"
180           value={stats?.monthly_value}
181           subtitle="Recurring revenue"
182           icon={MoneyIcon}
183           color="success"
184           isCurrency={true}
185         />
186       </Grid>
187
188       <Grid item xs={12} sm={6} md={3}>
189         <StatCard
190           title="Total Users"
191           value={stats?.total_users}
192           subtitle="On platform"
193           icon={PeopleIcon}
194           color="info"
195         />
196       </Grid>
197     </Grid>
198
199     { /* Secondary KPIs - Row 2 */ }
200     <Grid container spacing={3} sx={{ mb: 4 }}>
201       <Grid item xs={12} sm={6} md={3}>
202         <StatCard
203           title="Expiring in 30 Days"
204           value={stats?.expiring_30_days}
205           subtitle="Immediate attention"
206           icon={WarningIcon}
```

```

207         color="warning"
208     ..... />
209     </Grid>
210
211     <Grid item xs={12} sm={6} md={3}>
212         <StatCard
213             title="Expiring in 90 Days"
214             value={stats?.expiring_90_days}
215             subtitle="Planning"
216             icon={WarningIcon}
217             color="warning"
218         ..... />
219     </Grid>
220
221     <Grid item xs={12} sm={6} md={3}>
222         <StatCard
223             title="Pending Alerts"
224             value={stats?.unread_alerts}
225             subtitle={`$${stats?.total_alerts || 0} total`}
226             icon={AlertIcon}
227             color="error"
228         ..... />
229     </Grid>
230
231     <Grid item xs={12} sm={6} md={3}>
232         <StatCard
233             title="Approvals"
234             value={stats?.pending_approvals}
235             subtitle="Awaiting decision"
236             icon={ApprovalIcon}
237             color="info"
238         ..... />
239     </Grid>
240 </Grid>
241
242     {/* Executive Charts */}
243     <Grid container spacing={3}>
244         {/* Contracts by Department */}
245         <Grid item xs={12} md={8} lg={8}>
246             <Card elevation={3} sx={{ minHeight: 'auto', width: '100%', maxWidth: '100%' }}>
247                 <CardContent sx={{ height: '100%', p: 3, minWidth: 0 }}>
248                     <Typography variant="h6" sx={{ mb: 2, fontWeight: 600 }}>
249                         Contracts by Department
250                     </Typography>
251                     <Divider sx={{ mb: 2 }} />
252                     {departmentData.length > 0 ? (
253                         <Box sx={{ width: '100%', minWidth: 0, overflow: 'visible' }}>
254                             <ResponsiveContainer width="100%" height="auto">
255                                 <BarChart data={departmentData} margin={{ top: 5, right: 20, left: 0,
bottom: 5 }}>
256                                     <CartesianGrid strokeDasharray="3 3" />
257                                     <XAxis dataKey="departamento" angle={-15} textAnchor="end" height=
{80} />
258                                     <YAxis />

```

```






259         <Tooltip />
260         <Legend />
261         <Bar dataKey="contracts" fill="#2563EB" name="Contracts" />
262     </BarChart>
263 </ResponsiveContainer>
264 </Box>
265 ) : (
266     <Typography variant="body2" color="text.secondary">No data
available</Typography>
267 )}
268 </CardContent>
269 </Card>
270 </Grid>
271
272 { /* Contracts by Status */}
273 <Grid item xs={12} md={4} lg={4}>
274     <Card elevation={3} sx={{ minHeight: 'auto', width: '100%', minWidth: 0 }}>
275         <CardContent sx={{
276             height: '100%',
277             p: 3,
278             minWidth: 0,
279             display: 'flex',
280             flexDirection: 'column',
281             alignItems: 'stretch'
282         }}>
283             <Typography variant="h6" sx={{ mb: 2, fontWeight: 600 }}>
284                 Distribution by Status
285             </Typography>
286             <Divider sx={{ mb: 2 }} />
287             {statusData.length > 0 ? (
288                 <Box
289 ..... ref={(el) => {
290                     if (el) {
291                         console.log('Distribution by Status container width:',
available el.getBoundingClientRect().width);
292                     }
293                 }}
294                 sx={{
295                     flexGrow: 1,
296                     minWidth: 0,
297                     width: '100%',
298                     alignSelf: 'stretch'
299                 }}
300             >
301                 <ResponsiveContainer width="100%" height="auto">
302                     <PieChart>
303                         <Pie
304 ..... data={statusData}
305 ..... dataKey="value"
306 ..... cx="50%"
307 ..... cy="50%"
308 ..... outerRadius={90}
309 ..... label={false}
310 ..... labelLine={false}

```

```

311         fill="#8884d8"
312     ..... >
313     {statusData.map((entry, index) => (
314         <Cell key={`cell-${index}`} fill={COLORS[index % COLORS.length]}
/>
315     )))
316     </Pie>
317     <Tooltip />
318     <Legend verticalAlign="bottom" height={36} />
319     </PieChart>
320     </ResponsiveContainer>
321     </Box>
322     ) : (
323         <Typography variant="body2" color="text.secondary">No data
available</Typography>
324     )}
325     </CardContent>
326     </Card>
327 </Grid>
328
329 {/* Contracts by Type */}
330 <Grid item xs={12} md={8} lg={8}>
331     <Card elevation={3} sx={{ minHeight: 480, width: '100%', maxWidth: '100%' }}>
332         <CardContent sx={{ height: '100%', p: 3, minWidth: 0 }}>
333             <Typography variant="h6" sx={{ mb: 2, fontWeight: 600 }}>
334                 Contract Types
335             </Typography>
336             <Divider sx={{ mb: 2 }} />
337             {typeData.length > 0 ? (
338                 <Box sx={{ width: '100%', minWidth: 0, overflow: 'visible' }}>
339                     <ResponsiveContainer width="100%" height="auto">
340                         <BarChart data={typeData} layout="vertical" margin={{ top: 5, right:
20, left: 10, bottom: 5 }}>
341                             <CartesianGrid strokeDasharray="3 3" />
342                             <XAxis type="number" />
343                             <YAxis dataKey="name" type="category" width={100} />
344                             <Tooltip />
345                             <Legend />
346                             <Bar dataKey="quantity" fill="#10B981" name="Quantity" />
347                         </BarChart>
348                     </ResponsiveContainer>
349                 </Box>
350             ) : (
351                 <Typography variant="body2" color="text.secondary">No data
available</Typography>
352             )}
353             </CardContent>
354         </Card>
355     </Grid>
356
357 {/* Permissions and Information */}
358 <Grid item xs={12} md={4} lg={4}>
359     <Card elevation={1}>
360         <CardContent>

```

```
361     <Typography variant="h6" sx={{ mb: 2, fontWeight: 600 }}>
362       Complete Executive Access
363     </Typography>
364     <Divider sx={{ mb: 2 }} />
365     <Grid container spacing={1}>
366       <Grid item xs={12}>
367         <Typography variant="body2" color="text.secondary" paragraph>
368            View all company contracts
369         </Typography>
370         <Typography variant="body2" color="text.secondary" paragraph>
371            Approve strategic contracts
372         </Typography>
373         <Typography variant="body2" color="text.secondary" paragraph>
374            Access all reports with financial values
375         </Typography>
376         <Typography variant="body2" color="text.secondary" paragraph>
377            Manage users and roles in all sectors
378         </Typography>
379         <Typography variant="body2" color="text.secondary" paragraph>
380            Define all access levels (1-5)
381         </Typography>
382       </Grid>
383     </Grid>
384   </CardContent>
385 </Card>
386 </Grid>
387 </Grid>
388 </Box>
389 );
390 }
391 }
```