

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-start', mb: 2 }}>
58             <Typography variant="h6" color="text.secondary" sx={{ fontWeight: 500, fontSize: '0.95rem' }}>
59               {title}
60             </Typography>
61             <Icon sx={{ color: `${color}.main` , fontSize: 36 }} />
62           </Box>
63           <Typography variant="h3" sx={{ fontWeight: 700, mb: 1, color: `${color}.main` , fontSize: isCurrency ? '1.5rem' : '2.25rem' }}>
64             {formattedValue !== null && formattedValue !== undefined ? formattedValue : '-'}
65           </Typography>
66           {subtitle && (
67             <Typography variant="body2" color="text.secondary">
68               {subtitle}
69             </Typography>
70           )}
71         </CardContent>
72       </Card>
73     );
74   }
75
76   export default function DashboardDirector() {
77     const [stats, setStats] = useState(null);
78     const [loading, setLoading] = useState(true);
79     const [error, setError] = useState(null);
80
81     useEffect(() => {
82       const fetchStats = async () => {
83         try {
84           setLoading(true);
85           setError(null);
86           const data = await dashboardApi.getStats();
87           setStats(data);
88         } catch (err) {
89           console.error('Fehler beim Laden der Statistiken:', err);
90           setError('Fehler beim Laden der Dashboard-Statistiken.');
91         } finally {
92           setLoading(false);
93         }
94       };
95
96       fetchStats();
97     }, []);
98
99     if (loading) {
100       return (

```

```
101     <Box sx={{ display: 'flex', justifyContent: 'center', alignItems: 'center',
102       minHeight: '60vh' }}>
103         <CircularProgress size={60} />
104     </Box>
105   );
106 }
107
108 if (error) {
109   return (
110     <Box sx={{ p: 3 }}>
111       <Alert severity="error">{error}</Alert>
112     </Box>
113   );
114 }
115
116 const statusData = stats?.contracts_by_status
117   ? Object.entries(stats.contracts_by_status).map(([status, count]) => ({
118     name: status,
119     value: count
120   }))
121   : [];
122
123 const typeData = stats?.contracts_by_type
124   ? Object.entries(stats.contracts_by_type).map(([type, count]) => ({
125     name: type,
126     quantity: count
127   }))
128   : [];
129
130 const departmentData = stats?.contracts_by_department
131   ? Object.entries(stats.contracts_by_department).map(([dept, count]) => ({
132     departamento: dept,
133     contracts: count
134   }))
135   : [];
136
137 return (
138   <Box sx={{ p: 3, width: '100%', mx: 'auto' }}>
139     {/* Executive Header */}
140     <Box sx={{ display: 'flex', justifyContent: 'space-between', alignItems: 'center',
141       mb: 3 }}>
142       <Box>
143         <Typography variant="h4" sx={{ mb: 0.5, fontWeight: 600 }}>
144           Executive Dashboard
145         </Typography>
146         <Typography variant="body1" color="text.secondary">
147           Company Overview
148         </Typography>
149       </Box>
150       <Chip
151         .... label="Director"
152         .... color="primary"
153         .... icon={<BusinessIcon />}
154       />
```

```
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 />

```

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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:', 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               </Pie>
312             </ResponsiveContainer>
313           <Typography variant="body2" color="text.secondary">No data
available</Typography>
314         </Box>
315       ) : (
316         <Box
317           sx={{ padding: 10, height: 100, width: 100, position: 'relative' }}>
318           <Image alt="Placeholder image for contracts by status chart" style={{ width: '100%', height: '100%', objectFit: 'cover' }} />
319         </Box>
320       )
321     </CardContent>
322   </Card>
323 </Grid>
```

```

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
324     available</Typography>
325   )}
326   </CardContent>
327 </Card>
328 </Grid>

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:
341               20, left: 10, bottom: 5 }}>
342               <CartesianGrid strokeDasharray="3 3" />
343               <XAxis type="number" />
344               <YAxis dataKey="name" type="category" width={100} />
345               <Tooltip />
346               <Legend />
347               <Bar dataKey="quantity" fill="#10B981" name="Quantity" />
348             </BarChart>
349             </ResponsiveContainer>
350           </Box>
351         ) : (
352           <Typography variant="body2" color="text.secondary">No data
353           available</Typography>
354         )}
355       </CardContent>
356     </Card>
357   </Grid>

358   /* Permissions and Information */
359   <Grid item xs={12} md={4} lg={4}>
360     <Card elevation={1}>
361       <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 }
```