

LAPORAN AKHIR
PRAKTIKUM LABORATORIUM TI

Nama Praktikum : Rekaya Perangkat lunak 2
Kelas : 4IA26
Praktikum ke : 6
Tanggal : 18 November 2025
Materi : Jasperreport
NPM : 50422301
Nama : Aura Salsabila
Ketua Asisten :
Jumlah Lembar : 7



LABORATORIUM INFORMATIKA
UNIVERSITAS GUNADARMA
2025

LISTING

```
1 // Data untuk laporan
2 const reportData = {
3   sales: {
4     title: "Laporan Penjualan Bulanan",
5     company: "PT. NEXUS SOLUTIONS",
6     department: "Departemen Penjualan",
7     columns: ["No", "Produk", "Kuantitas", "Harga Satuan", "Total"],
8     data: [
9       { no: 1, product: "Laptop Dell XPS 13", qty: 5, price: 15000000, total: 75000000 },
10      { no: 2, product: "Monitor LG 27 inch", qty: 12, price: 3500000, total: 42000000 },
11      { no: 3, product: "Keyboard Mechanical", qty: 20, price: 1200000, total: 24000000 },
12      { no: 4, product: "Mouse Gaming", qty: 15, price: 450000, total: 6750000 },
13      { no: 5, product: "Webcam HD", qty: 8, price: 800000, total: 6400000 },
14      { no: 6, product: "Printer HP LaserJet", qty: 3, price: 5000000, total: 15000000 },
15      { no: 7, product: "Network Switch", qty: 4, price: 2000000, total: 8000000 },
16      { no: 8, product: "UPS 2000VA", qty: 6, price: 3500000, total: 21000000 },
17    ],
18    summary: {
19      totalQty: 73,
20      totalRevenue: 198150000,
21      avgValue: 24768750,
22      topProduct: "Laptop Dell XPS 13"
23    }
24  },
25  inventory: {
26    title: "Laporan Stok Barang",
27    company: "PT. NEXUS SOLUTIONS",
28    department: "Departemen Gudang",
29    columns: ["No", "Kode Barang", "Nama Barang", "Stok", "Min. Stok", "Status"],
30    data: [
31      { no: 1, code: "BRG001", name: "Laptop Dell XPS 13", stock: 15, min: 5, status: "✓ Normal" },
32      { no: 2, code: "BRG002", name: "Monitor LG 27 inch", stock: 8, min: 10, status: "⚠ Rendah" },
33      { no: 3, code: "BRG003", name: "Keyboard Mechanical", stock: 45, min: 20, status: "✓ Normal" },
34      { no: 4, code: "BRG004", name: "Mouse Gaming", stock: 3, min: 10, status: "⚠ Rendah" },
35      { no: 5, code: "BRG005", name: "Webcam HD", stock: 12, min: 5, status: "✓ Normal" },
36      { no: 6, code: "BRG006", name: "Printer HP LaserJet", stock: 2, min: 3, status: "⚠ Rendah" },
37      { no: 7, code: "BRG007", name: "Network Switch", stock: 25, min: 10, status: "✓ Normal" },
38      { no: 8, code: "BRG008", name: "UPS 2000VA", stock: 18, min: 8, status: "✓ Normal" },
39    ],
40    summary: {
41      totalItems: 128,
42      lowStock: 3,
43      normalStock: 5,
44      warehouseValue: "Rp. 450.000.000"
45    }
46  },
47  financial: {
48    title: "Laporan Keuangan Kuartal",
49    company: "PT. NEXUS SOLUTIONS",
50    department: "Departemen Keuangan",
51    columns: ["No", "Kategori", "Periode", "Nilai", "Persentase"],
52    data: [
53      { no: 1, category: "Pendapatan Operasional", period: "Q1 2024", value: 500000000, percentage: "35%" },
54      { no: 2, category: "Pendapatan Penjualan", period: "Q1 2024", value: 450000000, percentage: "31%" },
55      { no: 3, category: "Biaya Operasional", period: "Q1 2024", value: -250000000, percentage: "-17%" },
56      { no: 4, category: "Biaya Personel", period: "Q1 2024", value: -180000000, percentage: "-12%" },
57      { no: 5, category: "Biaya Utilitas", period: "Q1 2024", value: -50000000, percentage: "-3%" },
58      { no: 6, category: "Laba Kotor", period: "Q1 2024", value: 470000000, percentage: "32%" },
59    ],
60    summary: {
61      totalIncome: 950000000,
62      totalExpense: 480000000,
63      netProfit: 470000000,
64      margin: "49.47%"
65    }
66  }
67 };
68
69 // Format currency
70 function formatCurrency(value) {
71   return new Intl.NumberFormat('id-ID', {
72     style: 'currency',
73     currency: 'IDR',
74     minimumFractionDigits: 0,
75     maximumFractionDigits: 0,
76   }).format(value);
77 }
78
79 // Format number
80 function formatNumber(value) {
81   return new Intl.NumberFormat('id-ID').format(value);
82 }
83
84 // Get current date
85 function getCurrentDate() {
86   const today = new Date();
87   const options = { year: 'numeric', month: 'long', day: 'numeric', weekday: 'long' };
88   return today.toLocaleDateString('id-ID', options);
89 }
90
```

```

1 let currentReport = 'sales';
2
3 // Show report berdasarkan tipe
4 function showReport(reportType) {
5     currentReport = reportType;
6
7     // Update active menu
8     document.querySelectorAll('.menu-item').forEach(item => {
9         item.classList.remove('active');
10    });
11    event.target.classList.add('active');
12
13    generateReport();
14 }
15
16 // Generate laporan
17 function generateReport() {
18     const reportType = currentReport;
19     const data = reportData[reportType];
20
21     if (!data) {
22         showToast('Laporan tidak tersedia', 'error');
23         return;
24     }
25
26     const reportDate = document.getElementById('reportDate').value || new Date().toISOString().split('T')[0];
27     const department = document.getElementById('department').value || data.department;
28
29     let html = `
30     <div class="report" id="printableReport">
31         <!-- Header Laporan -->
32         <div class="report-header">
33             <div class="report-title">${data.title}</div>
34             <div class="report-subtitle">${data.company}</div>
35             <div class="report-subtitle">${department}</div>
36             <div class="report-date">Tanggal: ${new Date(reportDate).toLocaleDateString('id-ID', { year: 'numeric', month: 'long', day: 'numeric' })}</div>
37         </div>
38
39         <!-- Info Laporan -->
40         <div class="report-info">
41             <div class="info-item">
42                 <span class="info-label">Perusahaan:</span>
43                 <span class="info-value">${data.company}</span>
44             </div>
45             <div class="info-item">
46                 <span class="info-label">Departemen:</span>
47                 <span class="info-value">${department}</span>
48             </div>
49             <div class="info-item">
50                 <span class="info-label">Periode:</span>
51                 <span class="info-value">${new Date(reportDate).toLocaleDateString('id-ID', { year: 'numeric', month: 'long' })}</span>
52             </div>
53             <div class="info-item">
54                 <span class="info-label">Dicetak:</span>
55                 <span class="info-value">${getCurrentDate()}</span>
56             </div>
57         </div>
58     `;
59
60     // Render tabel data
61     html += renderTable(data);
62
63     // Summary box
64     html += renderSummary(data);
65
66     // Footer dan signature
67     html += `
68     <div class="report-footer">
69         <p>Laporan ini adalah dokumen resmi dan bersifat rahasia perusahaan.</p>
70         <p>Dibuat oleh: Sistem Laporan Terpadu | Halaman: <span class="page-number">1</span></p>
71     </div>
72
73     <div class="signature-section">
74         <div class="signature-item">
75             <div class="signature-name">Manajer Divisi</div>
76             <div class="signature-date">Jakarta, ${new Date(reportDate).toLocaleDateString('id-ID', { year: 'numeric', month: 'long', day: 'numeric' })}</div>
77         </div>
78         <div class="signature-item">
79             <div class="signature-name">Kepala Departemen</div>
80         </div>
81         <div class="signature-item">
82             <div class="signature-name">Direktur Utama</div>
83         </div>
84     </div>
85 `;
86
87     document.getElementById('reportContainer').innerHTML = html;
88     showToast('Laporan berhasil dibuat', 'success');
89 }
90
91 // Render tabel
92 function renderTable(data) {
93     let html = `
94     <div class="table-responsive">
95         <table>
96             <thead>
97                 <tr>
98
99     `;
100

```

```

1  // Header tabel
2  data.columns.forEach(col => {
3    html += `<th>${col}</th>`;
4  });
5
6  html += `
7      </tr>
8      </thead>
9      <tbody>
10 `;
11
12 // Data rows
13 data.data.forEach((row, index) => {
14   html += `<tr>`;
15   data.columns.forEach(col => {
16     let value = row[col.toLowerCase().replace(/s+/g, ' ')] || row[col.toLowerCase()];
17
18     // Format currency jika nilai numerik besar
19     if (typeof value === 'number' && value > 1000) {
20       value = formatCurrency(value);
21     } else if (typeof value === 'number') {
22       value = formatNumber(value);
23     }
24
25     html += `<td>${value}</td>`;
26   });
27   html += `</tr>`;
28 });
29
30 html += `
31     </tbody>
32   </table>
33 </div>
34 `;
35
36 return html;
37 }
38
39 // Render summary
40 function renderSummary(data) {
41   let html = `<div class="summary-box">`;
42
43   if (data.summary) {
44     const keys = Object.keys(data.summary);
45     keys.forEach(key => {
46       const value = data.summary[key];
47       const label = key
48         .replace(/([A-Z])/g, ' $1')
49         .replace(/^./, str => str.toUpperCase())
50         .trim();
51
52       let displayValue = value;
53       if (typeof value === 'number' && value > 1000) {
54         displayValue = formatCurrency(value);
55       }
56
57       html += `
58         <div class="summary-item">
59           <div class="summary-label">${label}</div>
60           <div class="summary-value">${displayValue}</div>
61         </div>
62       `;
63     });
64   }
65
66   html += `</div>`;
67   return html;
68 }
69
70 // Print laporan
71 function printReport() {
72   const printableReport = document.getElementById('printableReport');
73
74   if (!printableReport) {
75     showToast('Laporan belum dibuat', 'error');
76     return;
77   }
78
79   const printWindow = window.open('', '', 'width=800,height=600');
80   printWindow.document.write(`
81     <!DOCTYPE html>
82     <html>
83     <head>
84       <title>Print Laporan</title>
85       <link rel="stylesheet" href="styles.css">
86       <style>
87         body { margin: 0; padding: 20px; }
88         .report { box-shadow: none; }
89       </style>
90     </head>
91     <body>
92       ${printableReport.innerHTML}
93     </body>
94     </html>
95 `);

```

```

96     printWindow.document.close();
97
98
99     setTimeout(() => {
100         printWindow.print();
101     }, 250);
102
103     showToast('Membuka dialog cetak...', 'success');
104 }
105
106 // Export ke PDF
107 function exportToPDF() {
108     const reportContainer = document.getElementById('printableReport');
109
110     if (!reportContainer) {
111         showToast('Laporan belum dibuat', 'error');
112         return;
113     }
114
115     showToast('Memproses PDF...', 'success');
116
117     const element = reportContainer;
118     const opt = {
119         margin: [10, 10, 10, 10],
120         filename: `Laporan-${currentReport}-${new Date().toISOString().split('T')[0]}.pdf`,
121         image: { type: 'jpeg', quality: 0.98 },
122         html2canvas: { scale: 2, useCORS: true, allowTaint: true },
123         jsPDF: {
124             orientation: 'portrait',
125             unit: 'mm',
126             format: 'a4',
127             compress: true
128         },
129         pagebreak: { mode: ['avoid-all', 'css', 'legacy'] }
130     };
131
132     // Gunakan html2pdf jika tersedia
133     if (typeof html2pdf !== 'undefined') {
134         html2pdf().set(opt).from(element).save();
135         showToast('PDF berhasil diunduh!', 'success');
136     } else {
137         // Fallback: gunakan jsPDF + html2canvas
138         html2canvas(element, { scale: 2, allowTaint: true }).then(canvas => {
139             const { jsPDF } = window.jspdf;
140             const pdf = new jsPDF({
141                 orientation: 'portrait',
142                 unit: 'mm',
143                 format: 'a4',
144                 compress: true
145             });
146
147             const imgData = canvas.toDataURL('image/jpeg', 0.98);
148             const imgWidth = 190;
149             const imgHeight = (canvas.height * imgWidth) / canvas.width;
150
151             let heightLeft = imgHeight;
152             let position = 10;
153
154             pdf.addImage(imgData, 'JPEG', 10, position, imgWidth, imgHeight);
155             heightLeft -= (297 - 20);
156
157             while (heightLeft >= 0) {
158                 position = heightLeft - imgHeight;
159                 pdf.addPage();
160                 pdf.addImage(imgData, 'JPEG', 10, position, imgWidth, imgHeight);
161                 heightLeft -= 277;
162             }
163
164             pdf.save(`Laporan-${currentReport}-${new Date().toISOString().split('T')[0]}.pdf`);
165             showToast('PDF berhasil diunduh!', 'success');
166         }).catch(err => {
167             console.error('Error generating PDF:', err);
168             showToast('Gagal membuat PDF', 'error');
169         });
170     }
171 }
172
173 // Toast notification
174 function showToast(message, type = 'success') {
175     const toast = document.getElementById('toast');
176     toast.textContent = message;
177     toast.className = `toast show ${type}`;
178
179     setTimeout(() => {
180         toast.classList.remove('show');
181     }, 3000);
182 }
183
184 // Set default date to today
185 document.addEventListener('DOMContentLoaded', () => {
186     const today = new Date().toISOString().split('T')[0];
187     document.getElementById('reportDate').value = today;
188 });
189

```

```

1  /* RESET */
2  * {
3    margin: 0;
4    padding: 0;
5    box-sizing: border-box;
6  }
7
8  body {
9    font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
10   background-color: #eef2f7;
11   color: #333;
12 }
13
14 /* Layout Utama */
15 .container {
16   display: flex;
17   min-height: 100vh;
18 }
19
20 /* Sidebar */
21 .sidebar {
22   width: 250px;
23   background: #0d47a1;
24   color: white;
25   padding: 20px;
26   box-shadow: 2px 0 10px rgba(0, 0, 0, 0.1);
27   position: fixed;
28   height: 100vh;
29   overflow-y: auto;
30 }
31
32 .logo {
33   margin-bottom: 40px;
34   padding-bottom: 20px;
35   border-bottom: 1px solid rgba(255, 255, 255, 0.2);
36 }
37
38 .logo h2 {
39   font-size: 24px;
40   font-weight: 600;
41 }
42
43 .menu ul {
44   list-style: none;
45 }
46
47 .menu ul li {
48   margin-bottom: 10px;
49 }
50
51 .menu-item {
52   display: block;
53   padding: 12px 16px;
54   color: white;
55   text-decoration: none;
56   border-radius: 6px;
57   transition: all 0.3s ease;
58 }
59
60 .menu-item:hover,
61 .menu-item.active {
62   background-color: rgba(255, 255, 255, 0.15);
63   transform: translateX(5px);
64 }
65
66 /* Main Content */
67 .main-content {
68   margin-left: 250px;
69   flex: 1;
70   padding: 0;
71 }
72
73 /* Header */
74 .header {
75   background: #0d47a1;
76   color: white;
77   padding: 30px;
78   box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
79 }
80
81 .header-content h1 {
82   font-size: 28px;
83   margin-bottom: 8px;
84 }
85
86 .header-content p {
87   font-size: 14px;
88   opacity: 0.9;
89 }
90
91 /* Report Section */
92 .report-section {
93   padding: 30px;
94 }
95
96 .report-controls {
97   background: white;
98   padding: 20px;
99   border-radius: 8px;
100  margin-bottom: 30px;
101  box-shadow: 0 2px 8px rgba(0, 0, 0, 0.08);
102  display: flex;
103  gap: 20px;
104  flex-wrap: wrap;
105  align-items: flex-end;
106 }
107
108 .control-group {
109   display: flex;
110   flex-direction: column;
111   gap: 8px;
112 }
113
114 .control-group label {
115   font-weight: 600;
116   font-size: 13px;
117   color: #555;
118 }
119
120 .control-group input,
121 .control-group select {
122   padding: 10px 12px;
123   border: 1px solid #cbd5e1;
124   border-radius: 4px;
125   font-size: 14px;
126   min-width: 150px;
127   transition: border-color 0.3s ease;
128 }
129
130 .control-group input:focus,
131 .control-group select:focus {
132   outline: none;
133   border-color: #2196f3;
134   box-shadow: 0 0 3px rgba(33, 150, 243, 0.2);
135 }
136
137 /* Buttons */
138 .btn {
139   padding: 10px 20px;
140   border: none;
141   border-radius: 6px;
142   font-size: 14px;
143   font-weight: 600;
144   cursor: pointer;
145   transition: all 0.3s ease;
146   white-space: nowrap;
147 }
148

```

OUTPUT

ReportCenter

Laporan Penjualan

Laporan Inventori

Laporan Keuangan

Tanggal Laporan

18/11/2025

Departemen

Semua Departemen

Generate

Print

PDF

Laporan Stok Barang

PT. NEXUS SOLUTIONS

Departemen Gudang

Tanggal: 18 November 2025

Perusahaan: PT. NEXUS SOLUTIONS

Departemen: Departemen Gudang

Periode: November 2025

Dicetak: Selasa, 18 November 2025

No	Kode Barang	Nama Barang	Stok	Min. Stok	Status
1	undefined	undefined	undefined	undefined	✓ Normal
2	undefined	undefined	undefined	undefined	⚠ Rendah

ReportCenter

Laporan Penjualan

Laporan Inventori

Laporan Keuangan

Dashboard Laporan

Kelola & cetak laporan Anda dengan format profesional

Tanggal Laporan

18/11/2025

Departemen

Semua Departemen

Generate

Print

PDF

Laporan Keuangan Kuartal

PT. NEXUS SOLUTIONS

Departemen Keuangan

Tanggal: 18 November 2025

Perusahaan: PT. NEXUS SOLUTIONS

Departemen: Departemen Keuangan

Periode: November 2025

Dicetak: Selasa, 18 November 2025

No	Kategori	Periode	Nilai	Pen
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Laporan berhasil dibuat