

**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 }
```

```

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

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

Tanggal Laporan: 18/11/2025 | Departemen: Semua Departemen | Generate | Print | PDF

### Laporan Keuangan Kuartal

PT. NEXUS SOLUTIONS  
Departemen Keuangan  
Tanggal: 18 November 2025

No	Kategori	Periode	Nilai	Persentase
1	Uang Tunai	November 2025	1000000	100%

Laporan berhasil dibuat