



D3 Teknik Informatika (TI)
Jurusan Teknik Informatika
Politeknik Negeri Indramayu

Kode Program Swing Layout, UI, & Event Handling

Fachrul Pralienka Bani Muhamad, S.ST., M.Kom.
fachrul.pbm@polindra.ac.id

2025

Detail Proyek: RNV-JKT-AXG-001

Client

Client ID: **101**
Name: **Bapak Alex Gunawan**
Phone: **(+62) 8123456789**
Registration No: **RNV-JKT-AXG-001**

Details

Information

Reserve days:

Add Days

Buyer:
Seller:
Address:
Credit rating:

S&P Update

☒ Approved:

Additional Information

Estimated close:

Edit

Creation date: **2025-10-15**
Created by: **Admin**
Last edit date: **2025-11-16**
Last edited by: **Warnoto**
Closed date: **null**
Closed by: **null**

Product List

Renovation	Description	Part #	Quantity	List Price	Discount	Price	Wholesale Discount	Wholesaler Price
Dapur	Keramik Dinding Putih	KW-PT-DLX-01	50	150000	0	7500000	5	7125000
Dapur	Lem Keramik Instan	LMI-GRY-STD	5	50000	0	250000	0	250000
Dapur	Pipa PVC 3 inch	PVC-3IN-STD	12	35000	0	420000	10	378000

Subtotal list price:

Rp 15.570.000

Total retailer price:

Rp 15.182.500

Total wholesaler price:

Rp 14.249.625

Add

Edit

Delete

Tasks

State	Task	Assigner	Executer	Creation Date ^	Estimated Date	Executed Date
Completed	Pemasangan pipa PVC di area garasi	Warnoto	Goang	2025-10-20	2025-10-21	2025-10-21
Completed	Pengecatan ulang ruang tamu	Warnoto	Toni	2025-10-25	2025-10-28	2025-10-27
Delayed	Pemasangan keramik dinding dapur	Warnoto	Toni	2025-11-01	2025-11-04	

Add

Edit

Delete

Comments

Date ^	User	Comment
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2025-11-03 16:45	Toni	Cuaca hujan deras selama 2 hari, area kerja sedikit basah. Pemasangan ditunda besok pagi.
2025-11-15 14:30	Goang	Barang sudah sampai di lokasi. Mulai proses pembongkaran closet lama sore ini.

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Edit

Delete

Export

Save

Cancel

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Details

Information

Reserve days: 0 of 30

Add Days

Buyer: Bapak Alex Gunawan
Seller: PT Bangun Jaya Abadi
Address: Jl. Raya Lohbener Baru, 778A
Credit rating: AAA

S&P Update

☒ Approved: Proyek renovasi telah disetujui, siap dimulai

Additional Information

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Edit

Delete

Export

Save

Cancel

JTable

Kode Program Swing Layout, UI, & Event Handling - Fachrul
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3

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Add
Edit
Delete

Export

Save

Cancel

JScrollPane

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4

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Information

Reserve days: 0 of 30

Add Days

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S&P Update

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Edit

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Save

Cancel

JSeparator

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Add Days

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Add Edit Delete

Export

Save Cancel

JCheckBox

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Client ID: 101
Name: Bapak Alex Gunawan
Phone: (+62) 8123456789
Registration No: RNV-JKT-AXG-001
Details

Information

Reserve days: 0 of 30 Add Days
Buyer: Bapak Alex Gunawan
Seller: PT Bangun Jaya Abadi
Address: Jl. Raya Lohbener Baru, 778A
Credit rating: AAA S&P Update
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Edit
Delete

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Add
Edit
Delete

Export Save Cancel

TitledBorder

Detail Proyek: RNV-JKT-AXG-001

Client

Client ID: 101

Name: Bapak Alex Gunawan

Phone: (+62) 8123456789

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Details

Information

Reserve days: 0 of 30

Add Days

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Seller: PT Bangun Jaya Abadi

Address: Jl. Raya Lohbener Baru, 778A

Credit rating: AAA

S&P Update

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Add

Edit

Delete

Export

Save

Cancel

JLabel

JTextField

JButton

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Details

Information

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Add

Edit

Delete

Export

Save

Cancel

Col 1

Row 1

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Seller: PT Bangun Jaya Abadi

Address: Jl. Raya Lohbener Baru, 778A

Credit rating: AAAS&P Update

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Col 2

Row 2

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AddEditDelete

Col 3

Row 3

Additional Information

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Creation date: 2025-10-15

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Delayed	Pemasangan keramik dinding dapur	Warnoto	Toni	2025-11-01	2025-11-04	

AddEditDelete

Row 4

Comments

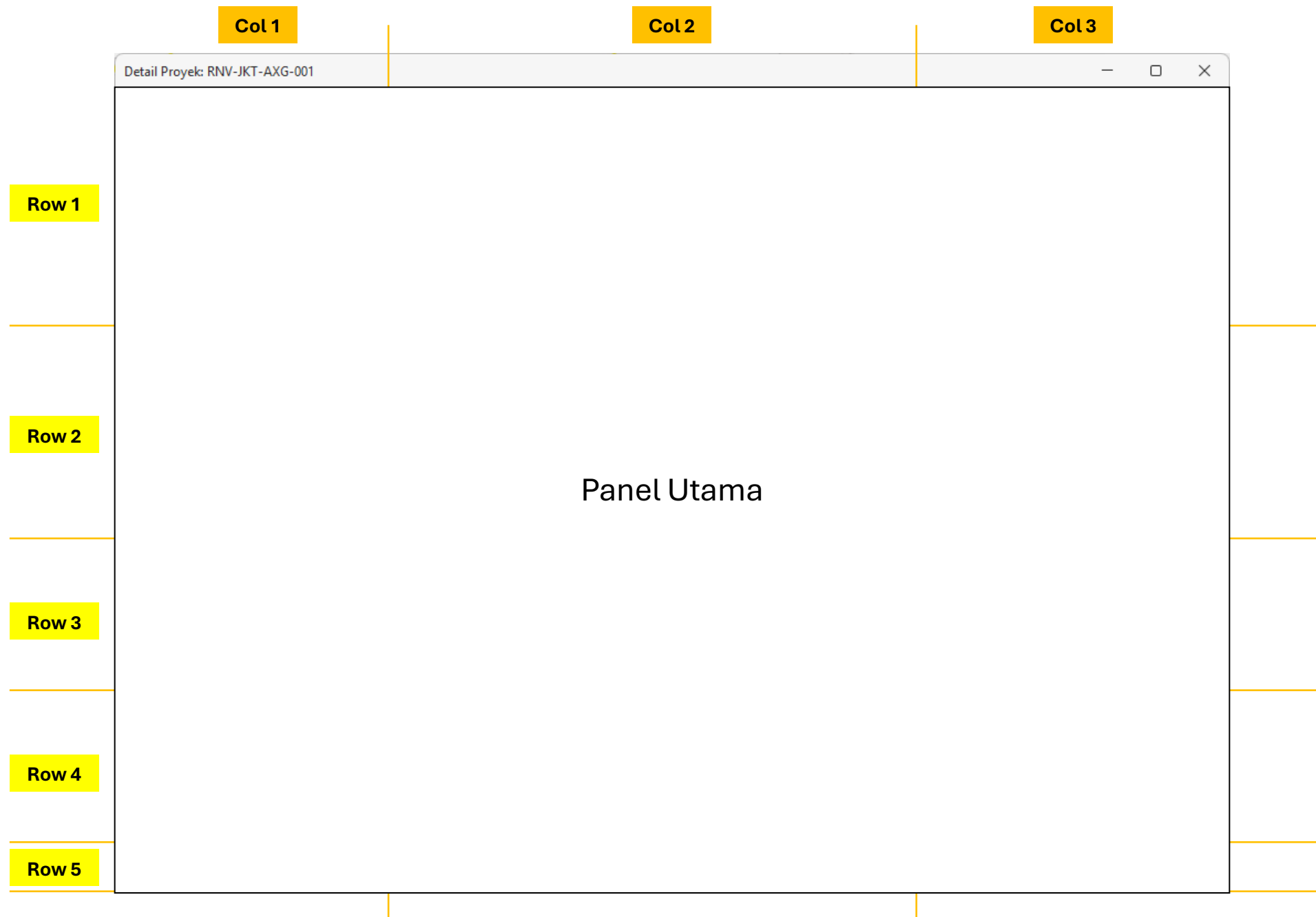
Date ^	User	Comment
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AddEditDelete

Row 5

Export

SaveCancel

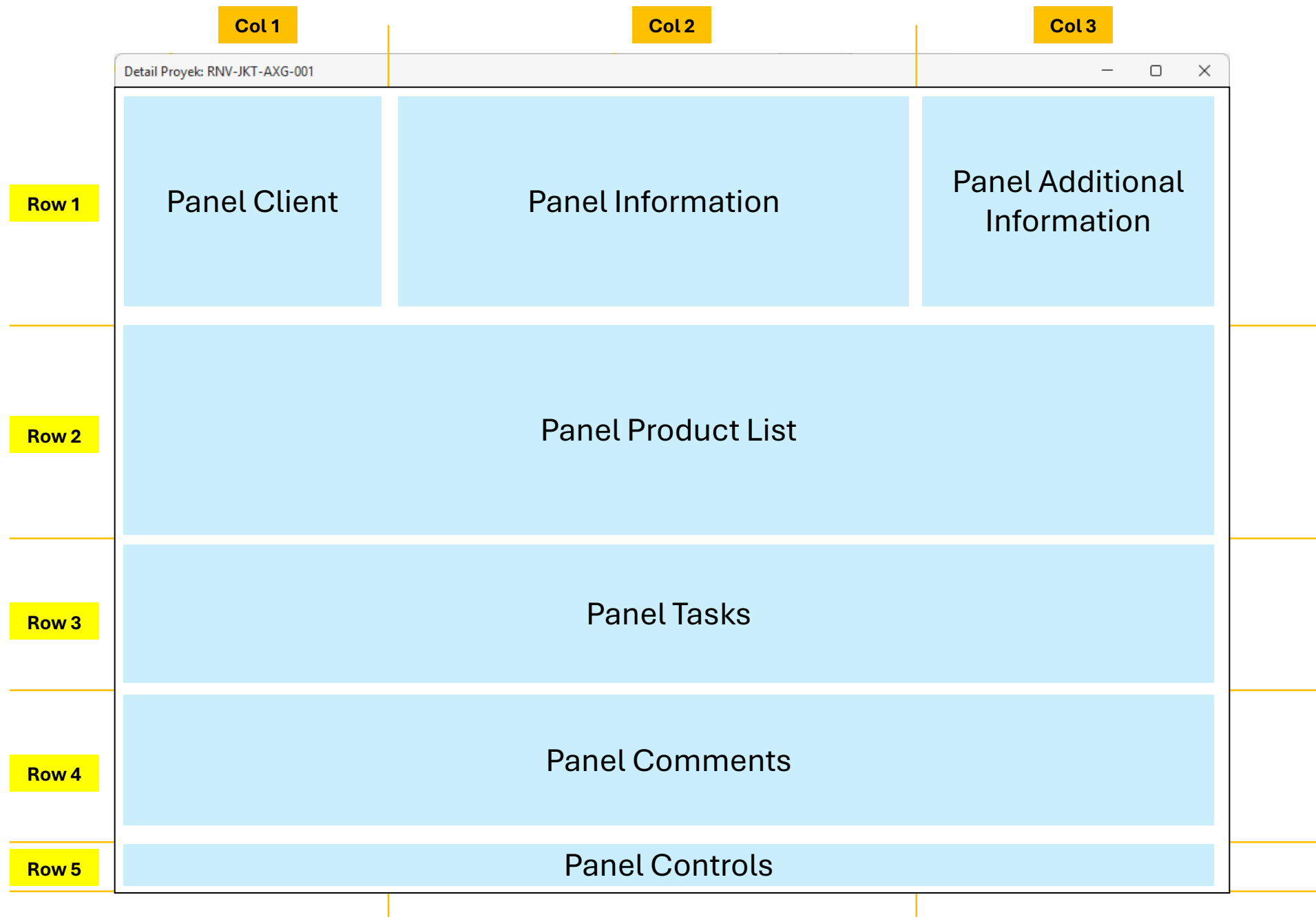


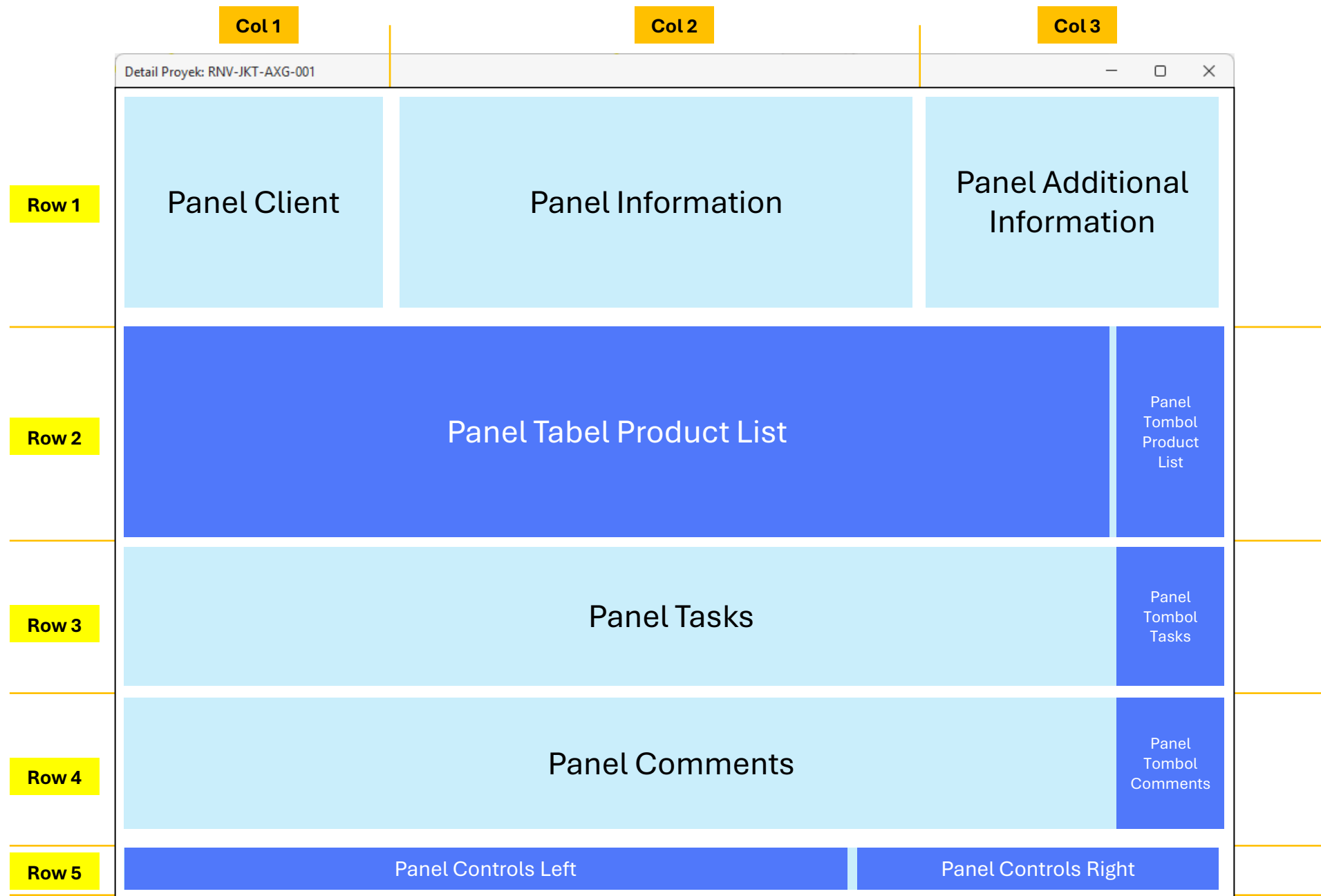


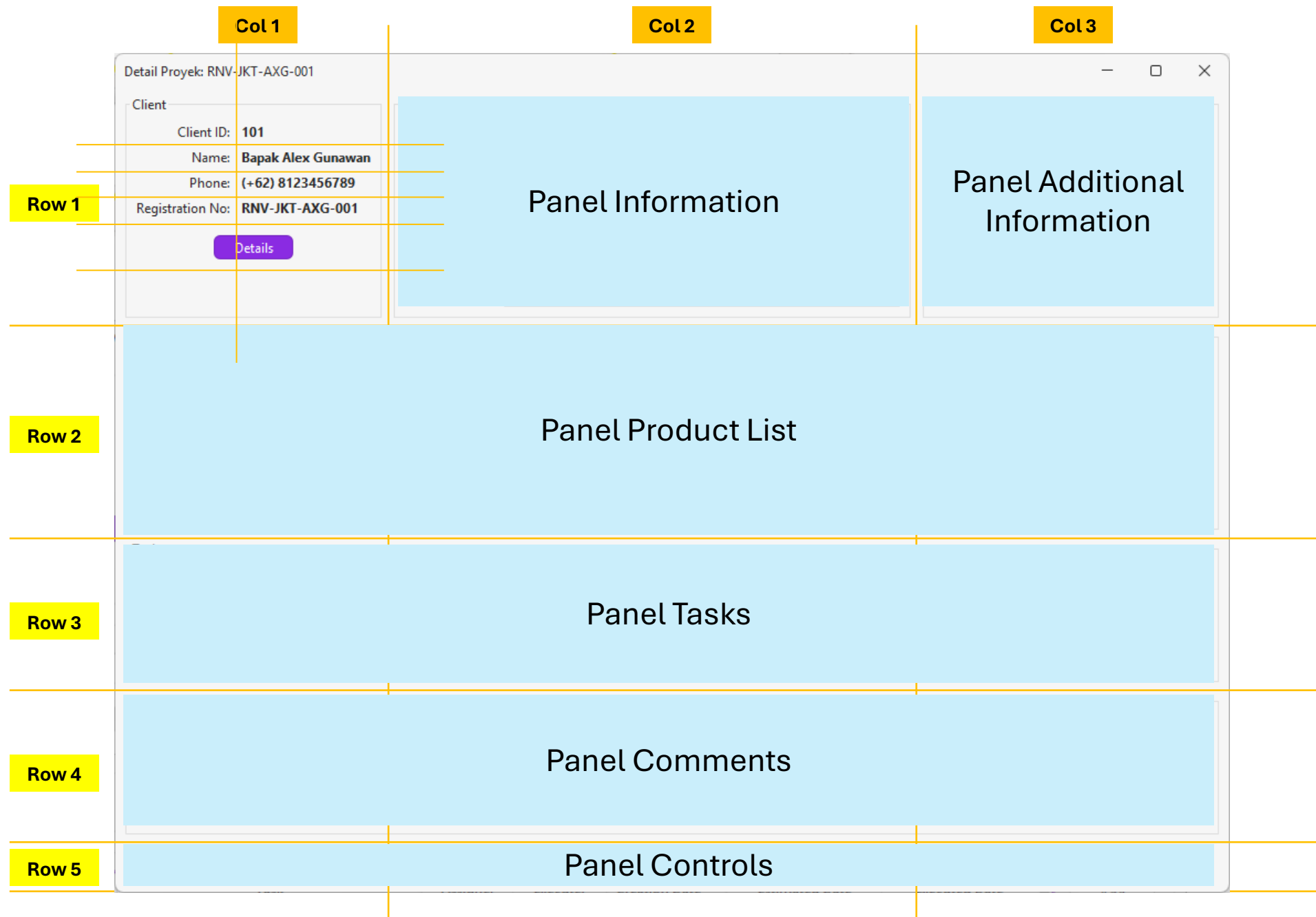
```
24 public class RenovationApp {
25
26     private static String buttonColor = "background: $Component.accentColor; foreground: #FFFFFF;";
27
28     public static void main(String[] args) {
29
30         try {
31             FlatLaf.setGlobalExtraDefaults(Collections.singletonMap("@accentColor", "#8A2BE2"));
32             UIManager.setLookAndFeel(new FlatMacLightLaf());
33         } catch (UnsupportedLookAndFeelException e) {
34             e.printStackTrace();
35         }
36
37         SwingUtilities.invokeLater(() -> {
38
39             /** Deklarasi Frame */
40             JFrame frame = new JFrame("Detail Proyek: RNV-JKT-AXG-001");
41             frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
42             frame.setPreferredSize(new Dimension(1024, 768));
43             frame.setMinimumSize(new Dimension(800, 600));
44
45             /** Deklarasi Panel Utama */
46             JPanel panelUtama = new JPanel(new MigLayout("fill, wrap 3", "[[]grow][[]", "[[]grow][grow][grow][[]]"));
47
48             /** Deklarasi Panel Client */
49
50
51             /** Deklarasi Panel Information */
52
53
54             /** Deklarasi Panel Additional Information */
55
56
```

```
56
57     /** Deklarasi Panel Product List **/
58
59
60     /** Deklarasi Panel (Table) Product List */
61
62
63     /** Deklarasi Panel (Button) Product List */
64
65
66     /** Deklarasi Panel Tasks **/
67
68
69     /** Deklarasi Panel (Button) Tasks */
70
71
72     /** Deklarasi Panel Comments */
73
74
75     /** Deklarasi Panel (Button) Comments */
76
77
78     /** Deklarasi Panel Controls */
79
80
81     /** Deklarasi Panel Controls (Left) */
82
83
84     /** Deklarasi Panel Controls (Right) */
85
```

```
218
219     /** Deklarasi ScrollPane */
220     JScrollPane scrollPane = new JScrollPane(panelUtama);
221     scrollPane.getVerticalScrollBar().setUnitIncrement(18);
222     scrollPane.getVerticalScrollBar().putClientProperty("JScrollBar.fastWheelScrolling", true);
223     scrollPane.putClientProperty("JScrollPane.fastWheelScrolling", true);
224     scrollPane.setVerticalScrollBarPolicy(JScrollPane.VERTICAL_SCROLLBAR_AS_NEEDED);
225
226     frame.add(scrollPane);
227     frame.pack();
228     frame.setLocationRelativeTo(null);
229     frame.setVisible(true);
230
231     });
232
233     }
234 }
```







```

48      /** Deklarasi Panel Client */
49      JPanel panelClient = new JPanel(new MigLayout("wrap 2", "[right]10[left]"));
50      panelClient.setBorder(new TitledBorder("Client"));
51      panelClient.add(new JLabel("Client ID:"));
52      panelClient.add(new JLabel("<html><b>101</b></html>"));
53      panelClient.add(new JLabel("Name:"));
54      panelClient.add(new JLabel("<html><b>Bapak Alex Gunawan</b></html>"));
55      panelClient.add(new JLabel("Phone:"));
56      panelClient.add(new JLabel("<html><b>(+62) 8123456789</b></html>"));
57      panelClient.add(new JLabel("Registration No:"));
58      panelClient.add(new JLabel("<html><b>RNV-JKT-AXG-001</b></html>"));
59      JButton buttonDetails = new JButton("Details");
60      buttonDetails.putClientProperty("FlatLaf.style", buttonColor);
61      panelClient.add(buttonDetails, "span 2, gaptop 10, center");
62      panelUtama.add(panelClient, "grow");

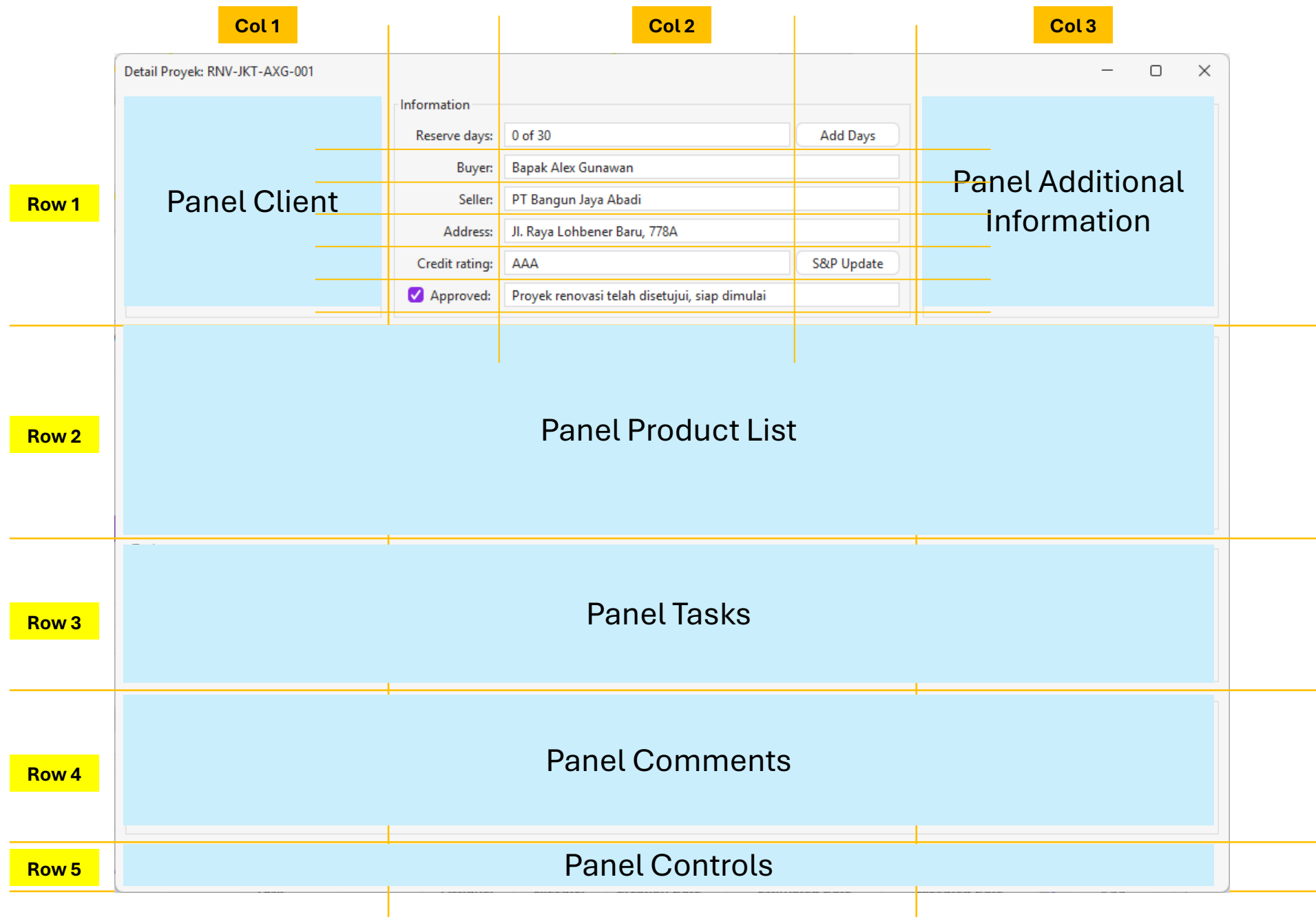
```

Detail Proyek: RNV-JKT-AXG-001

Client

Client ID:	101
Name:	Bapak Alex Gunawan
Phone:	(+62) 8123456789
Registration No:	RNV-JKT-AXG-001

Details

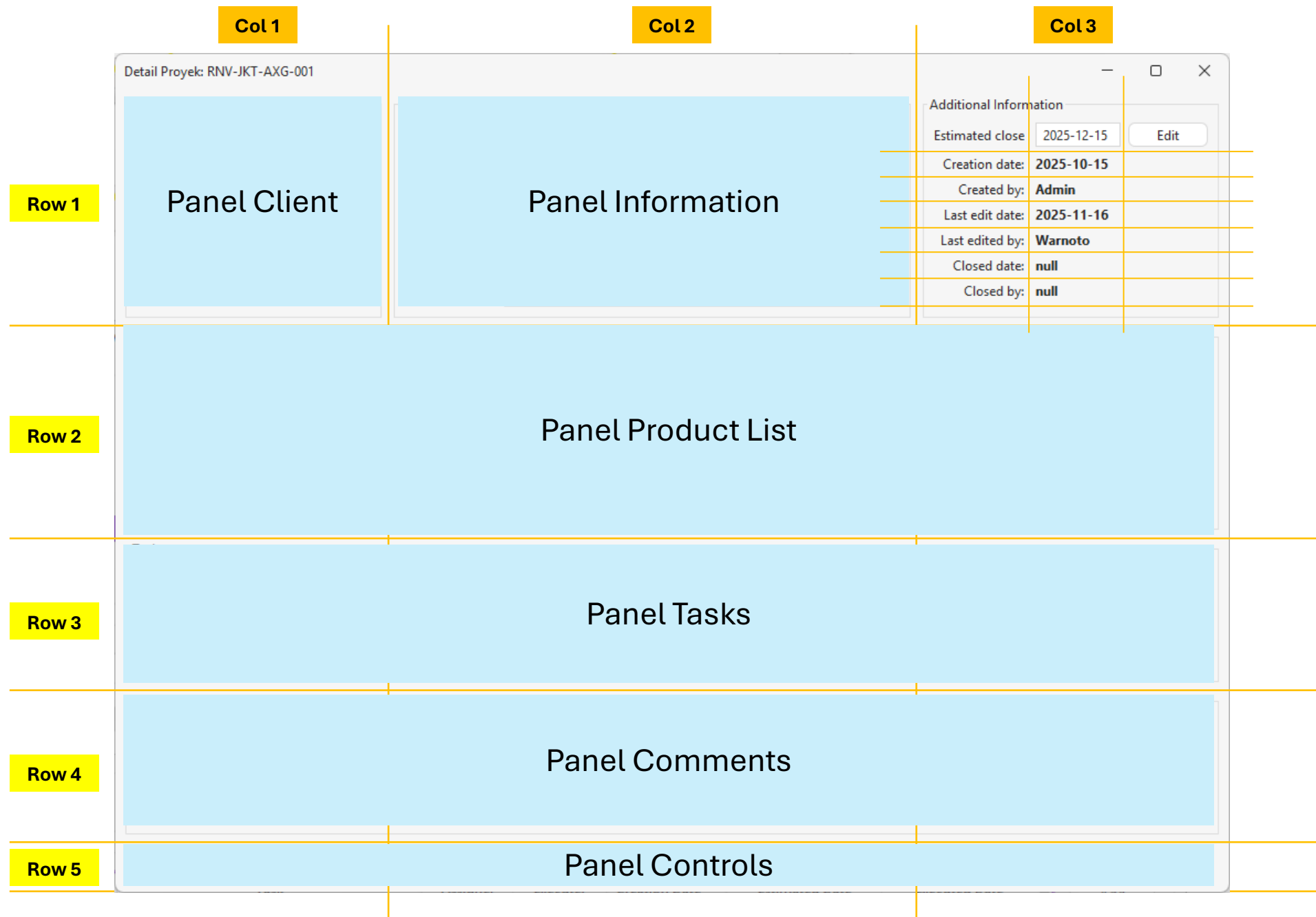


```

64      /** Deklarasi Panel Information */
65      JPanel panelInformation = new JPanel(new MigLayout("wrap 3", "[right]10[left, grow, fill]5[fill]"));
66      panelInformation.setBorder(new TitledBorder("Information"));
67      panelInformation.add(new JLabel("Reserve days:"));
68      panelInformation.add(new JTextField("0 of 30"));
69      panelInformation.add(new JButton("Add Days"));
70      panelInformation.add(new JLabel("Buyer:"));
71      panelInformation.add(new JTextField("Bapak Alex Gunawan"), "span 2");
72      panelInformation.add(new JLabel("Seller:"));
73      panelInformation.add(new JTextField("PT Bangun Jaya Abadi"), "span 2");
74      panelInformation.add(new JLabel("Address:"));
75      panelInformation.add(new JTextField("Jl. Raya Lohbener Baru, 778A"), "span 2");
76      panelInformation.add(new JLabel("Credit rating:"));
77      panelInformation.add(new JTextField("AAA"));
78      panelInformation.add(new JButton("S&P Update"));
79      panelInformation.add(new JCheckBox("Approved:"));
80      panelInformation.add(new JTextField("Proyek renovasi telah disetujui, siap dimulai"), "span 2");
81      panelUtama.add(panelInformation, "grow");

```

Information		
Reserve days:	0 of 30	Add Days
Buyer:	Bapak Alex Gunawan	
Seller:	PT Bangun Jaya Abadi	
Address:	Jl. Raya Lohbener Baru, 778A	
Credit rating:	AAA	S&P Update
<input checked="" type="checkbox"/> Approved:	Proyek renovasi telah disetujui, siap dimulai	

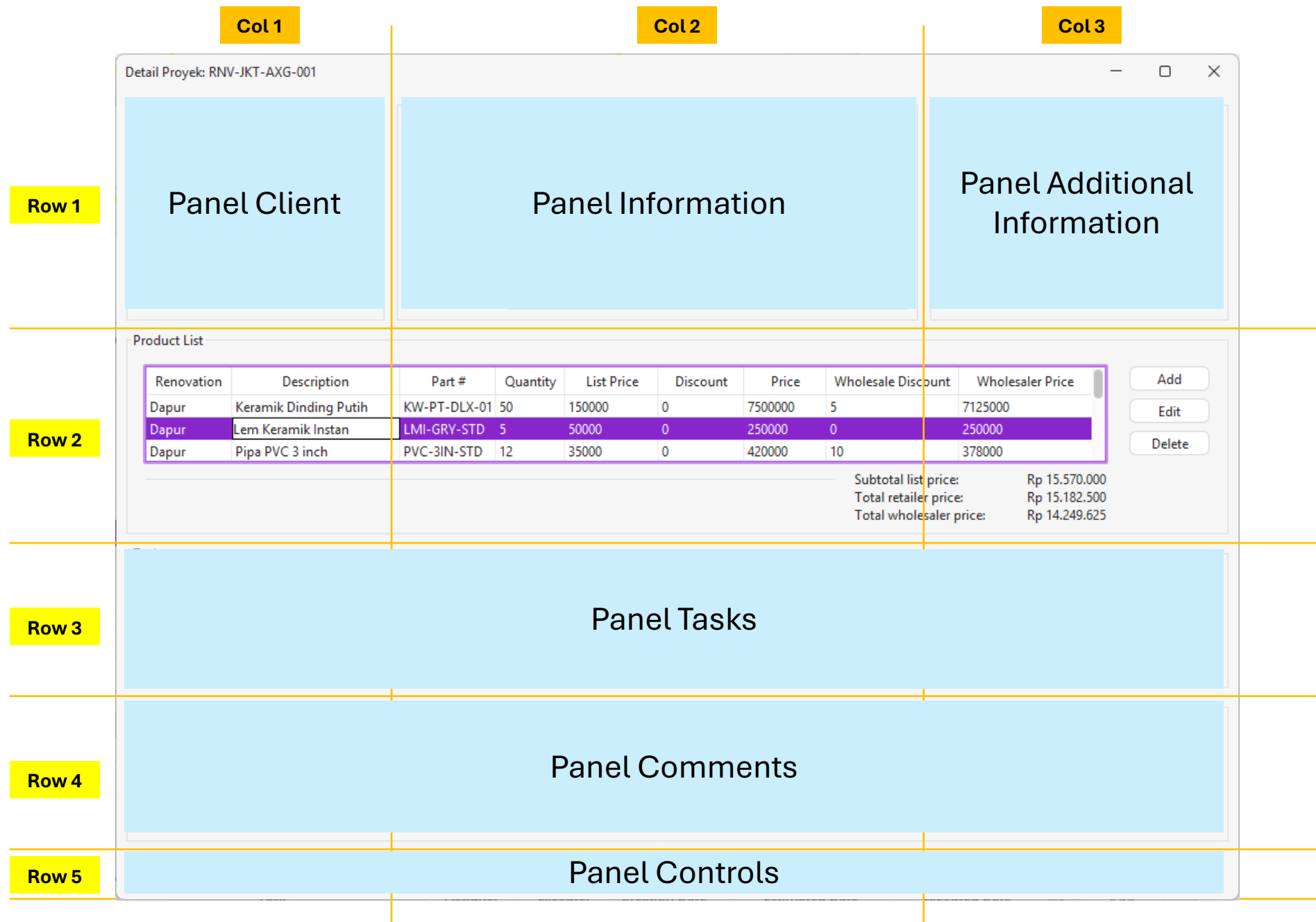


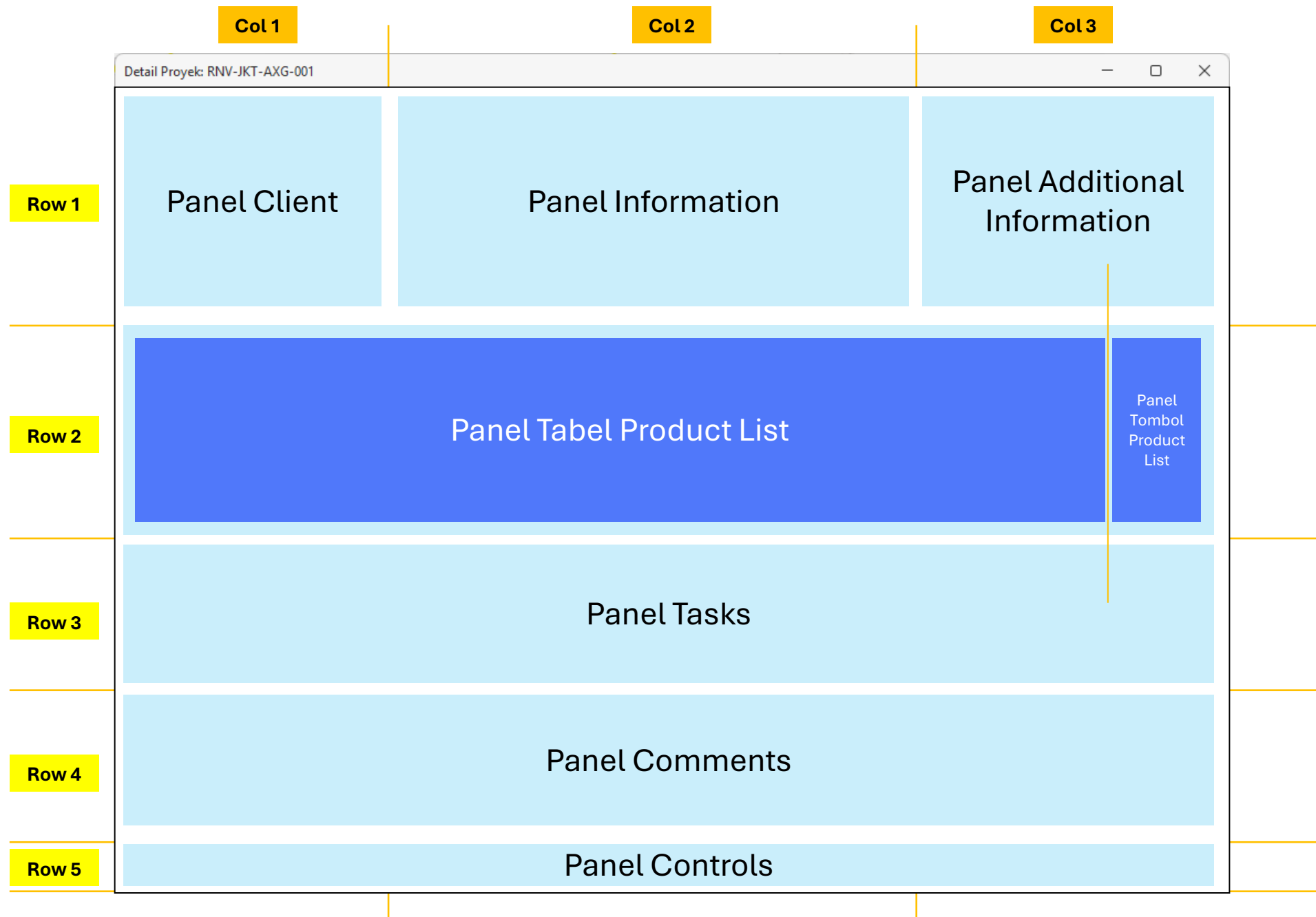
```

82
83     /** Deklarasi Panel Additional Information **/
84     JPanel panelAdditional = new JPanel(new MigLayout("wrap 3", "[right]10[left,grow,fill][]"));
85     panelAdditional.setBorder(new TitledBorder("Additional Information"));
86     panelAdditional.add(new JLabel("Estimated close"));
87     panelAdditional.add(new JTextField("2025-12-15"), "wmin pref");
88     panelAdditional.add(new JButton("Edit"), "wmax pref");
89     panelAdditional.add(new JLabel("Creation date:"));
90     panelAdditional.add(new JLabel("<html><b>2025-10-15</b></html>"), "span 2");
91     panelAdditional.add(new JLabel("Created by:"));
92     panelAdditional.add(new JLabel("<html><b>Admin</b></html>"), "span 2");
93     panelAdditional.add(new JLabel("Last edit date:"));
94     panelAdditional.add(new JLabel("<html><b>2025-11-16</b></html>"), "span 2");
95     panelAdditional.add(new JLabel("Last edited by:"));
96     panelAdditional.add(new JLabel("<html><b>Warnoto</b></html>"), "span 2");
97     panelAdditional.add(new JLabel("Closed date:"));
98     panelAdditional.add(new JLabel("<html><b>null</b></html>"), "span 2");
99     panelAdditional.add(new JLabel("Closed by:"));
100    panelAdditional.add(new JLabel("<html><b>null</b></html>"), "span 2");
101    panelUtama.add(panelAdditional, "grow");

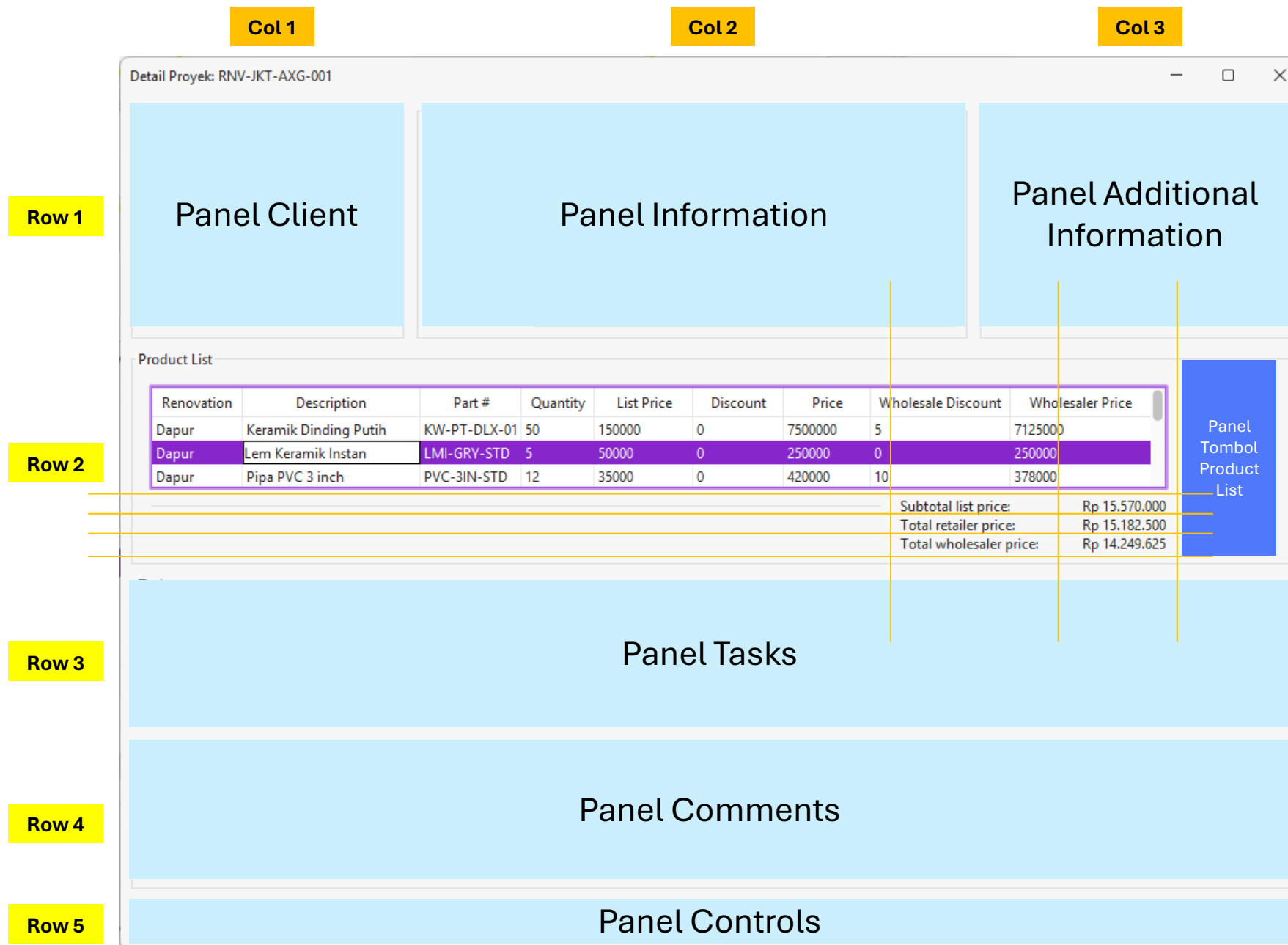
```


		—	□	×
Additional Information				
Estimated close	2025-12-15	Edit		
Creation date:	2025-10-15			
Created by:	Admin			
Last edit date:	2025-11-16			
Last edited by:	Warnoto			
Closed date:	null			
Closed by:	null			





```
102
103     /** Deklarasi Panel Product List */
104     JPanel panelProduk = new JPanel(new MigLayout("", "[grow][]"));
105     panelProduk.setBorder(new TitledBorder("Product List"));
```



```

106
107  /** Deklarasi Panel (Table) Product List */
108  JPanel panelTableProductList = new JPanel(new MigLayout("wrap 3", "[grow][left][right]", "[[]0[]0[]0"]));
109  String[] kolomTableProductList = {
110      "Renovation", "Description", "Part #", "Quantity", "List Price", "Discount", "Price", "Wholesale Discount", "Wholesaler Price"
111  };
112  Object[][] dataProductList = {
113      { "Dapur", "Keramik Dinding Putih", "KW-PT-DLX-01", 50, 150000, 0, 7500000L, 5, 7125000L },
114      { "Dapur", "Lem Keramik Instan", "LMI-GRY-STD", 5, 50000, 0, 250000L, 0, 250000L },
115      { "Dapur", "Pipa PVC 3 inch", "PVC-3IN-STD", 12, 35000, 0, 420000L, 10, 378000L },
116      { "Kamar Mandi", "Shower Set Minimalis", "SHW-MN-STL", 1, 850000, 15, 722500L, 5, 686375L },
117      { "Kamar Mandi", "Closet Duduk Premium", "CLO-DD-PRM", 1, 2500000, 5, 2375000L, 10, 2137500L },
118      { "Ruang Tamu", "Lampu Gantung Hias", "LMP-HNG-CRS", 2, 750000, 0, 1500000L, 0, 1500000L },
119      { "Ruang Tamu", "Cat Tembok Putih 20L", "CAT-PT-20L", 3, 450000, 10, 1215000L, 15, 1032750L },
120      { "Garasi", "Semen PC 50kg", "SMN-PC-50", 20, 60000, 0, 1200000L, 5, 1140000L },
121  };
122  DefaultTableModel tableModelProductList = new DefaultTableModel(dataProductList, kolomTableProductList);
123 .JTable tableProductList = new.JTable(tableModelProductList);
124  tableProductList.setAutoCreateRowSorter(true);
125  tableProductList.setShowGrid(true);
126  JScrollPane scrollPaneTableProductList = new JScrollPane(tableProductList);
127  panelTableProductList.add(scrollPaneTableProductList, "span 3, growx, h 150");
128  panelTableProductList.add(new JSeparator(), "growx");
129  panelTableProductList.add(new JLabel("Subtotal list price:"), "gapx 10");
130  panelTableProductList.add(new JLabel("Rp 15.570.000"), "gapx 30");
131  panelTableProductList.add(new JLabel("Total retailer price:"), "skip 1, gapx 10");
132  panelTableProductList.add(new JLabel("Rp 15.182.500"), "gapx 30");
133  panelTableProductList.add(new JLabel("Total wholesaler price:"), "skip 1, gapx 10");
134  panelTableProductList.add(new JLabel("Rp 14.249.625"), "gapx 30");
135  panelProduk.add(panelTableProductList, "grow");

```

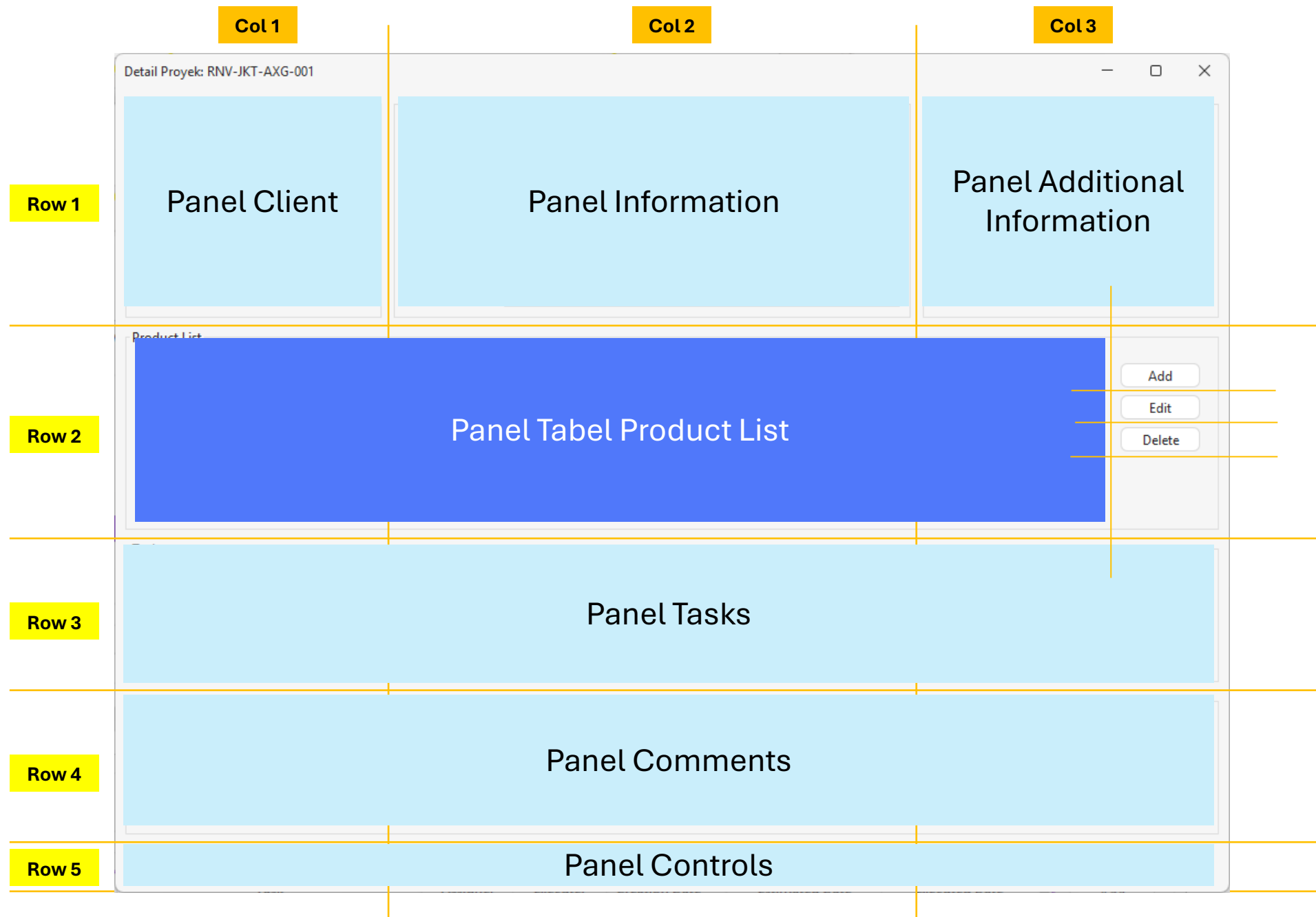
Product List

Renovation	Description	Part #	Quantity	List Price	Discount	Price	Wholesale Discount	Wholesaler Price
Dapur	Keramik Dinding Putih	KW-PT-DLX-01	50	150000	0	7500000	5	7125000
Dapur	Lem Keramik Instan	LMI-GRY-STD	5	50000	0	250000	0	250000
Dapur	Pipa PVC 3 inch	PVC-3IN-STD	12	35000	0	420000	10	378000

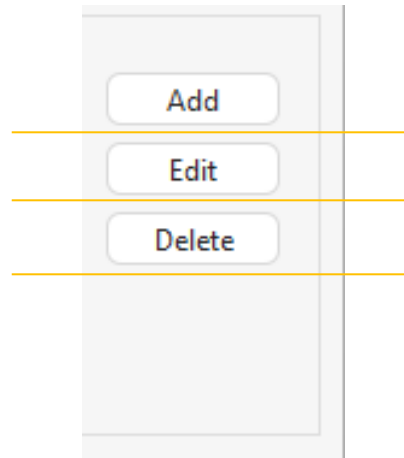
Subtotal list price: Rp 15.570.000

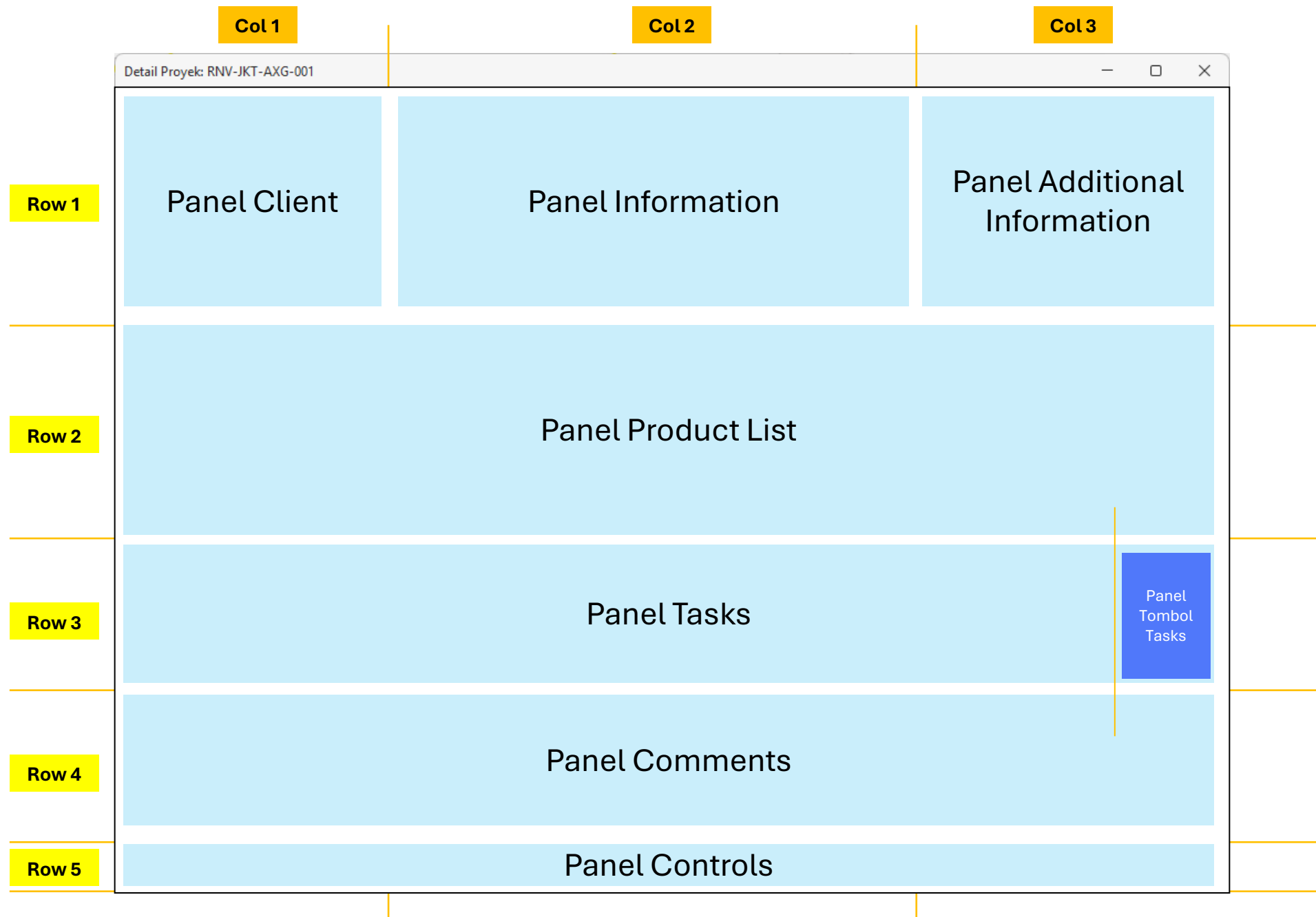
Total retailer price: Rp 15.182.500

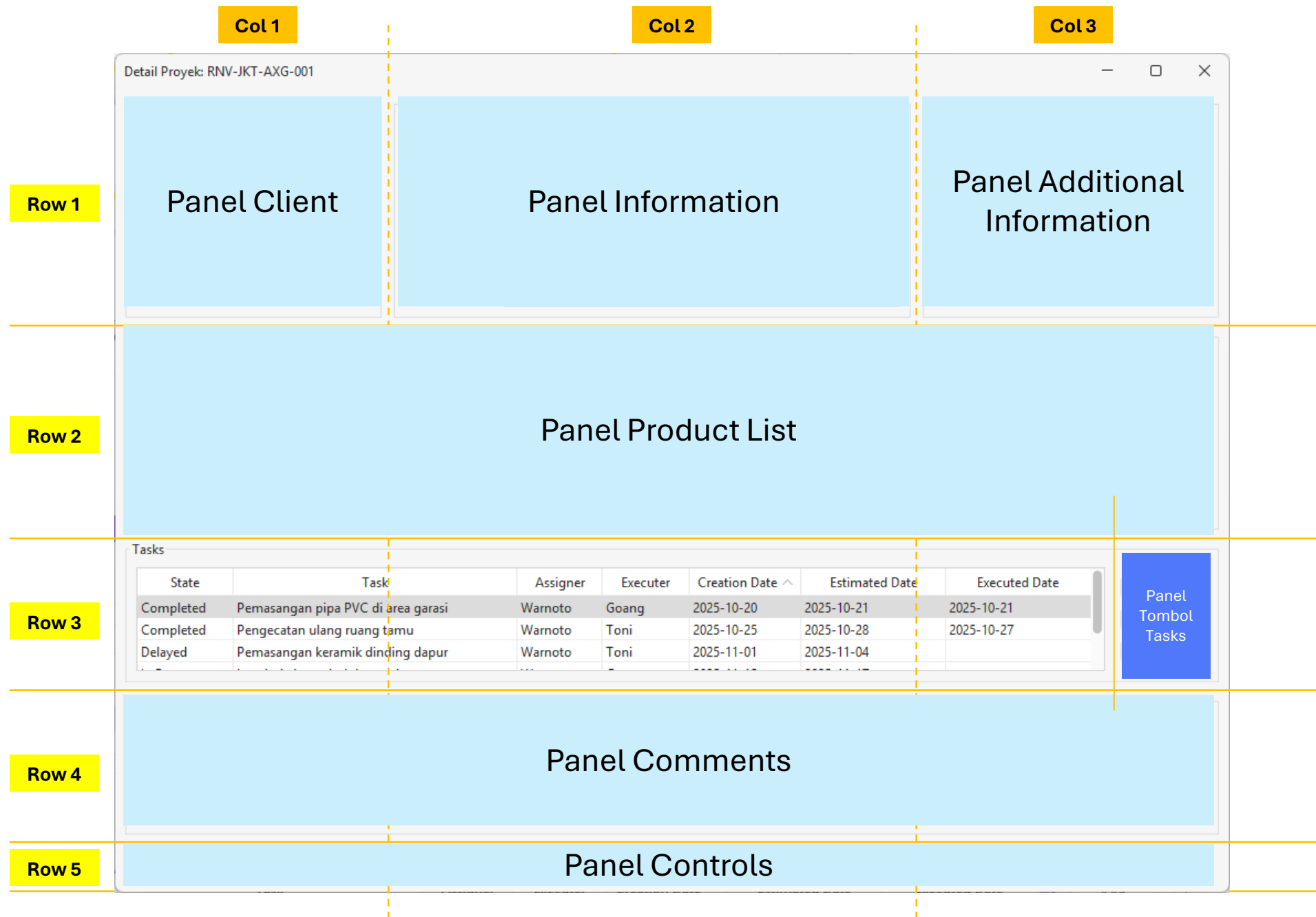
Total wholesaler price: Rp 14.249.625




```
136
137      /** Deklarasi Panel (Button) Product List */
138      JPanel panelButtonProductList = new JPanel(new MigLayout("wrap 1"));
139      panelButtonProductList.add(new JButton("Add"));
140      panelButtonProductList.add(new JButton("Edit"));
141      panelButtonProductList.add(new JButton("Delete"));
142      panelProduk.add(panelButtonProductList, "grow");
143      panelUtama.add(panelProduk, "growx, span 3");
```







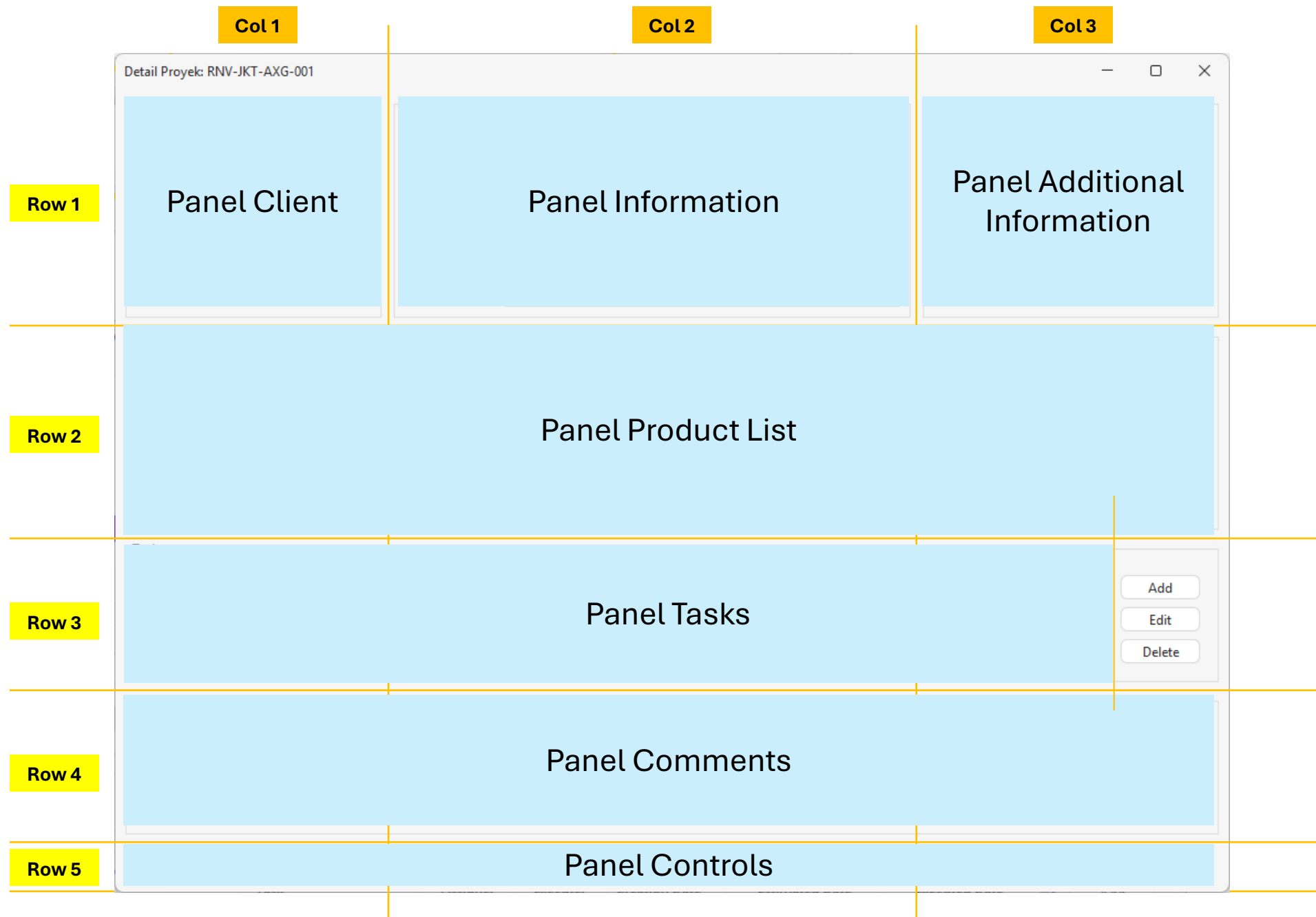


renovation-app-2 - RenovationApp.java

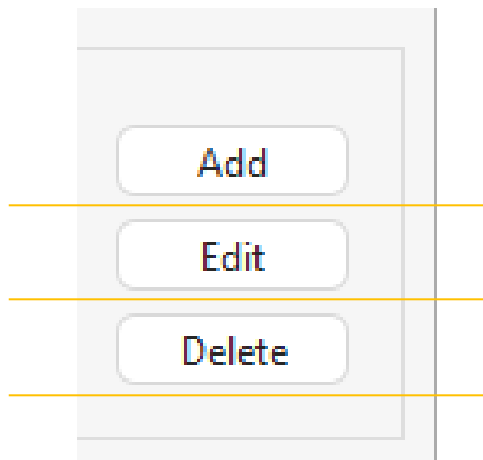
```
150      /** Deklarasi Panel Tasks **/  
151      JPanel panelTask = new JPanel(new MigLayout("", "[grow][]"));  
152      panelTask.setBorder(new TitledBorder("Tasks"));  
153      String[] kolomTableTask = { "State", "Task", "Assigner", "Executer", "Creation Date", "Estimated Date", "Executed Date" };  
154      Object[][] dataTask = {  
155          { "Completed", "Pengecatan ulang ruang tamu", "Warnoto", "Toni", "2025-10-25", "2025-10-28", "2025-10-27" },  
156          { "In Progress", "Instalasi closet duduk premium", "Warnoto", "Goang", "2025-11-15", "2025-11-17", null },  
157          { "Delayed", "Pemasangan keramik dinding dapur", "Warnoto", "Toni", "2025-11-01", "2025-11-04", null },  
158          { "Completed", "Pemasangan pipa PVC di area garasi", "Warnoto", "Goang", "2025-10-20", "2025-10-21", "2025-10-21" },  
159          { "Not Started", "Pembelian dan instalasi lampu gantung hias", "Warnoto", "Toni", "2025-11-16", "2025-11-18", null }  
160      };  
161      DefaultTableModel tableModelTask = new DefaultTableModel(dataTask, kolomTableTask);  
162      JTable tableTask = new JTable(tableModelTask);  
163      tableTask.setAutoCreateRowSorter(true);  
164      tableTask.setShowGrid(true);  
165      JScrollPane scrolPaneTableTask = new JScrollPane(tableTask);  
166      panelTask.add(scrolPaneTableTask, "grow, hmin 150, hmax 190");  
167
```

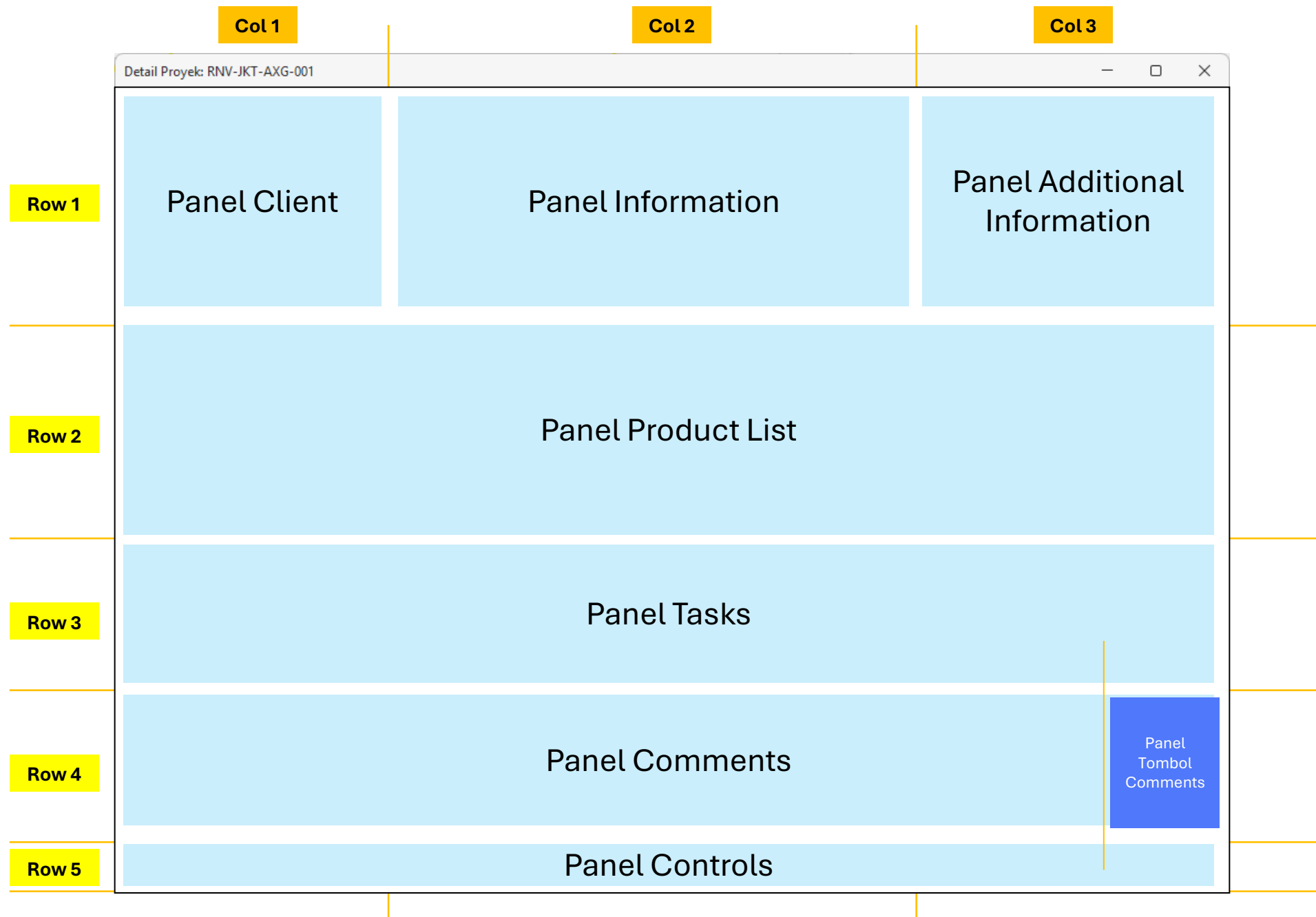
Tasks

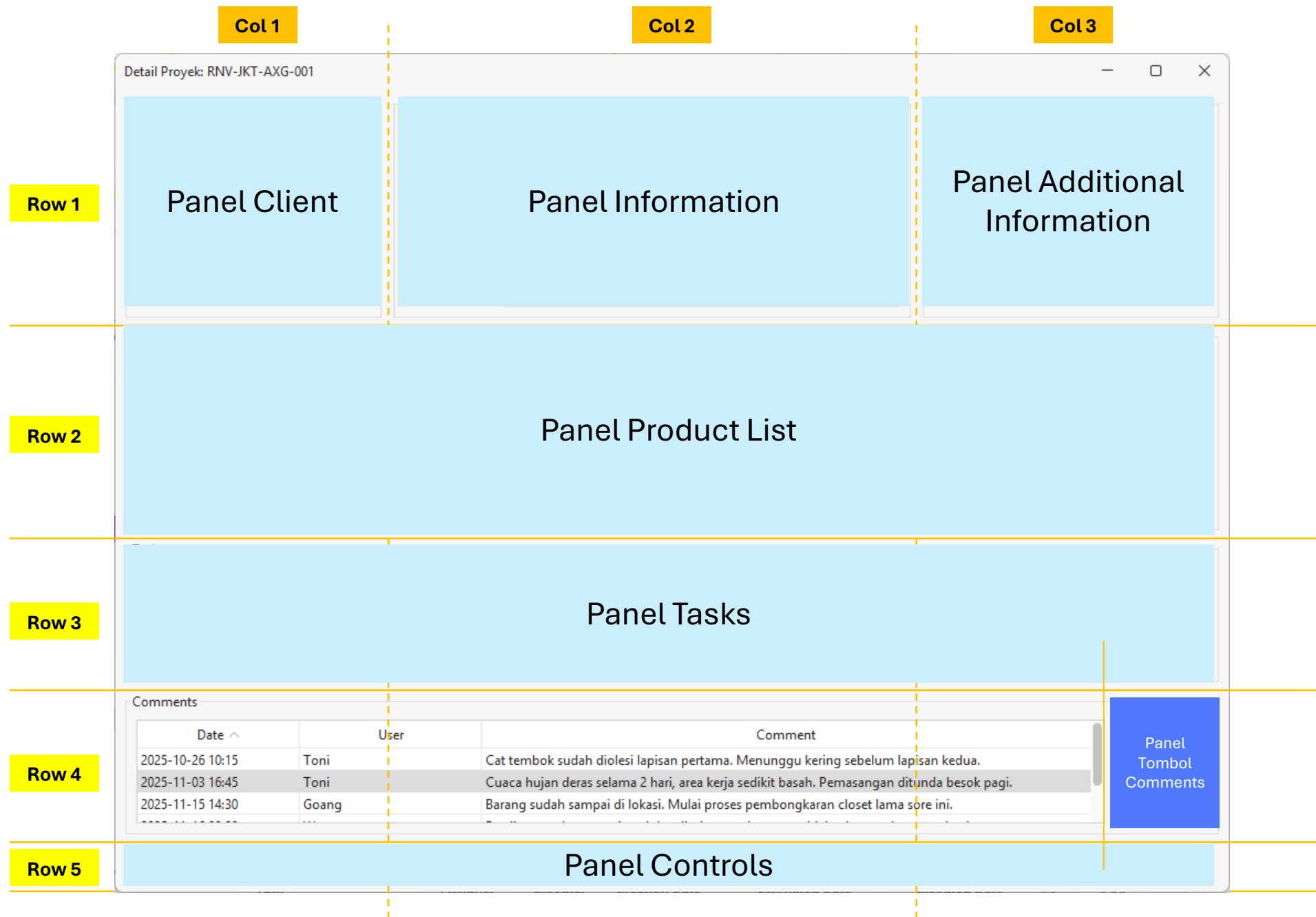
State	Task	Assigner	Executer	Creation Date ^	Estimated Date	Executed Date
Completed	Pemasangan pipa PVC di area garasi	Warnoto	Goang	2025-10-20	2025-10-21	2025-10-21
Completed	Pengecatan ulang ruang tamu	Warnoto	Toni	2025-10-25	2025-10-28	2025-10-27
Delayed	Pemasangan keramik dinding dapur	Warnoto	Toni	2025-11-01	2025-11-04	



```
168      /** Deklarasi Panel (Button) Tasks */
169      JPanel panelButtonTask = new JPanel(new MigLayout("wrap 1"));
170      panelButtonTask.add(new JButton("Add"));
171      panelButtonTask.add(new JButton("Edit"));
172      panelButtonTask.add(new JButton("Delete"));
173      panelTask.add(panelButtonTask, "grow");
174      panelUtama.add(panelTask, "grow, span 3");
175
```





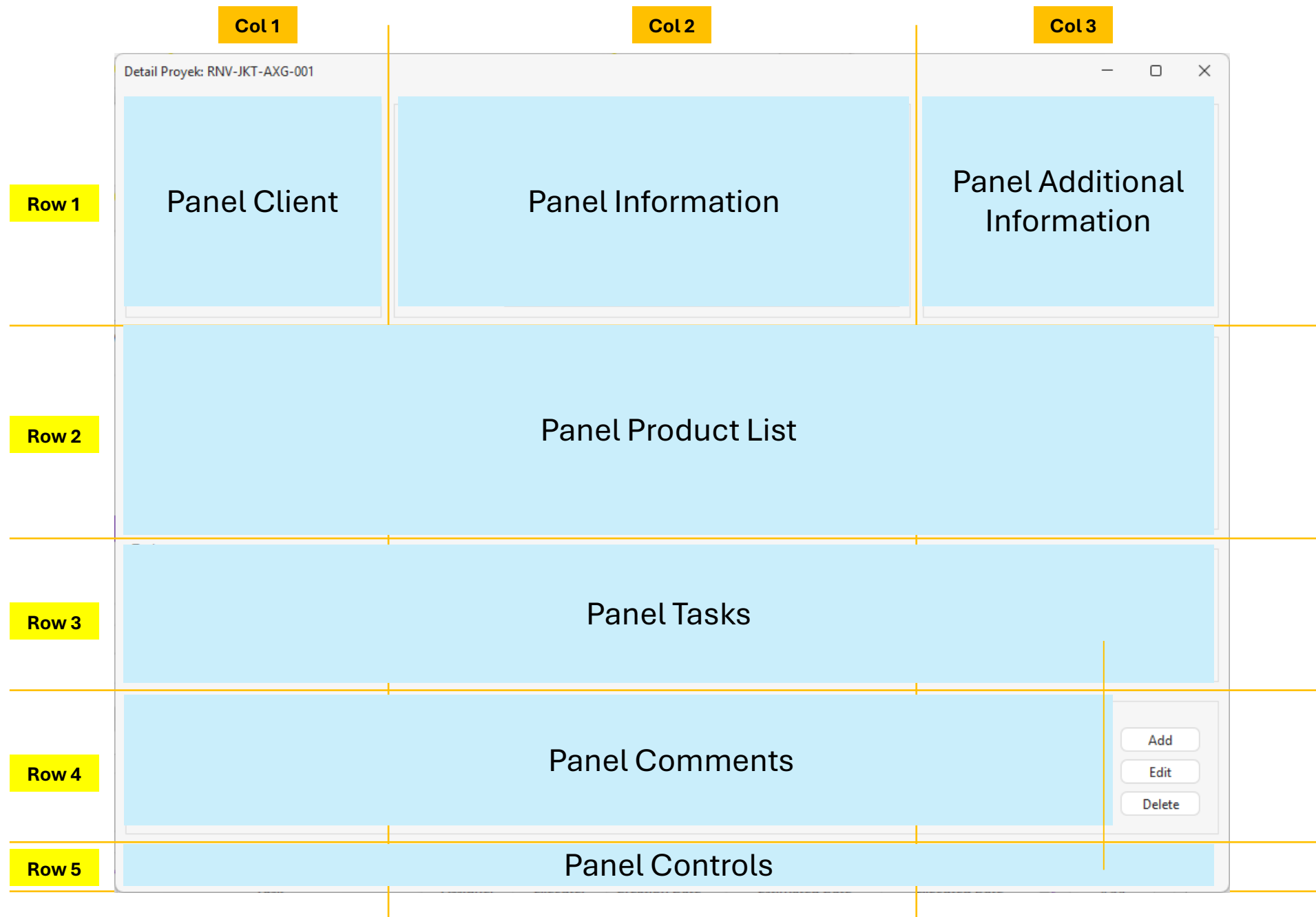


renovation-app-2 - RenovationApp.java

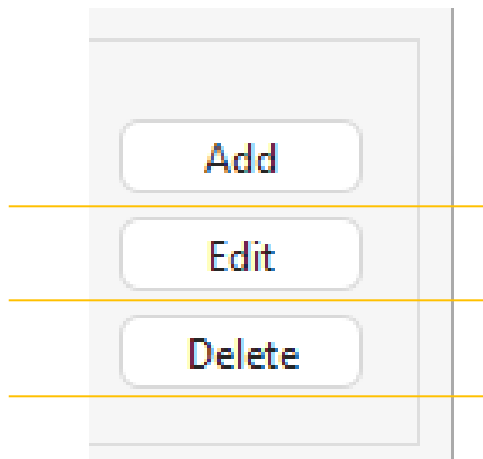
```
176      /** Deklarasi Panel Comments */
177      JPanel panelComments = new JPanel(new MigLayout("", "[grow][]"));
178      panelComments.setBorder(new TitledBorder("Comments"));
179      String[] kolomTableComment = { "Date", "User", "Comment" };
180      Object[][] dataComment = {
181          { "2025-10-26 10:15", "Toni", "Cat tembok sudah diolesi lapisan pertama. Menunggu kering sebelum lapisan kedua." },
182          { "2025-11-15 14:30", "Goang", "Barang sudah sampai di lokasi. Mulai proses pembongkaran closet lama sore ini." },
183          { "2025-11-16 09:00", "Warnoto", "Pastikan sambungan pipa air bersih dan pembuangan tidak ada yang bocor, cek tekanannya." },
184          { "2025-11-03 16:45", "Toni", "Cuaca hujan deras selama 2 hari, area kerja sedikit basah. Pemasangan ditunda besok pagi." },
185          { "2025-11-16 20:00", "Warnoto", "Lampu yang diinginkan customer stoknya habis. Mencari alternatif lampu model serupa." },
186      };
187      DefaultTableModel tableModelComment = new DefaultTableModel(dataComment, kolomTableComment);
188      JTable tableComment = new JTable(tableModelComment);
189      tableComment.setAutoCreateRowSorter(true);
190      tableComment.setShowGrid(true);
191      JScrollPane scrolPaneTableComment = new JScrollPane(tableComment);
192      panelComments.add(scrolPaneTableComment, "grow, hmin 150, hmax 190");
```

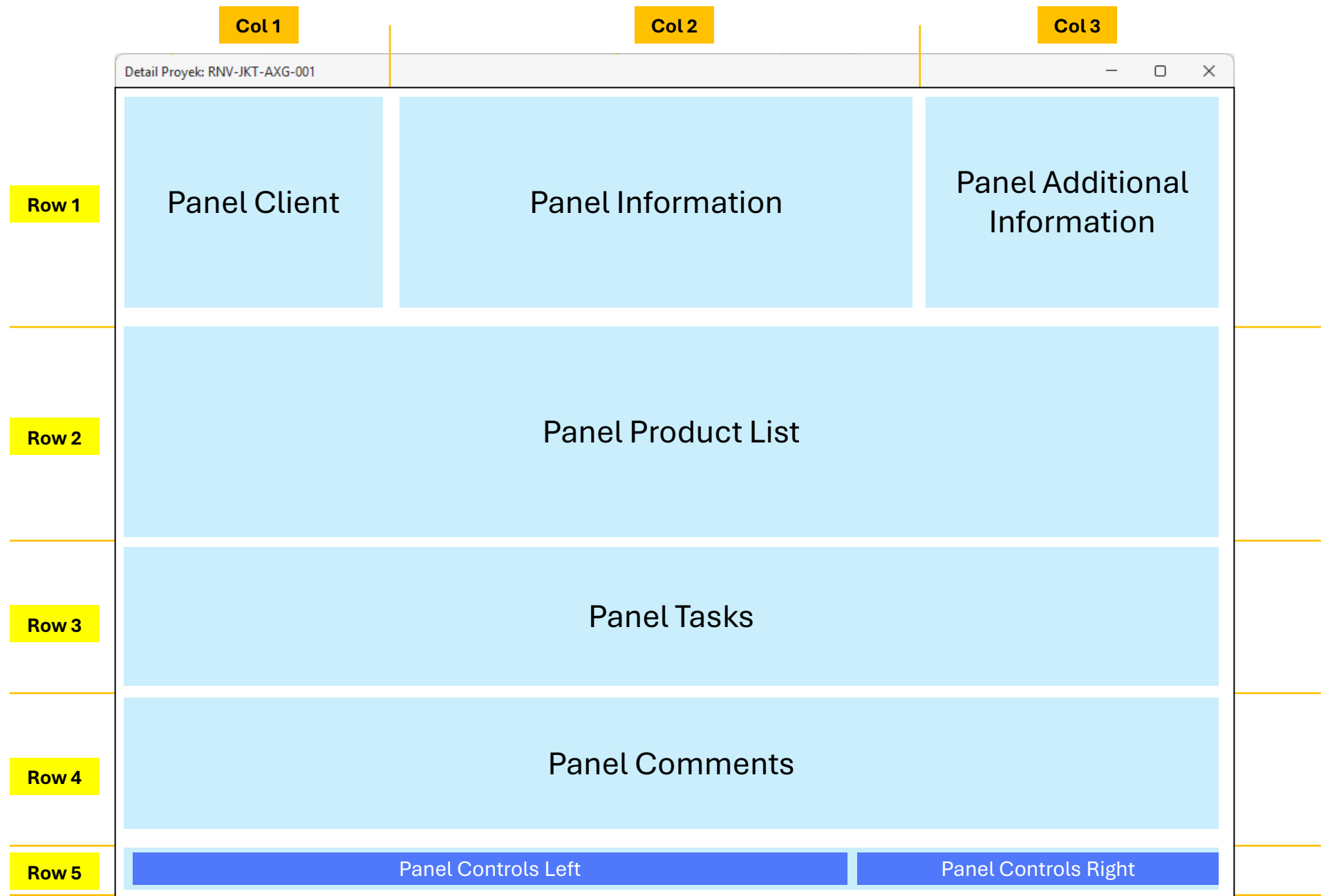
Comments

Date ^	User	Comment
2025-10-26 10:15	Toni	Cat tembok sudah diolesi lapisan pertama. Menunggu kering sebelum lapisan kedua.
2025-11-03 16:45	Toni	Cuaca hujan deras selama 2 hari, area kerja sedikit basah. Pemasangan ditunda besok pagi.
2025-11-15 14:30	Goang	Barang sudah sampai di lokasi. Mulai proses pembongkaran closet lama sore ini.



```
193  
194     /** Deklarasi Panel (Button) Comments */  
195     JPanel panelButtonComment = new JPanel(new MigLayout("wrap 1"));  
196     panelButtonComment.add(new JButton("Add"));  
197     panelButtonComment.add(new JButton("Edit"));  
198     panelButtonComment.add(new JButton("Delete"));  
199     panelComments.add(panelButtonComment, "grow");  
200     panelUtama.add(panelComments, "grow, span 3");  
201
```

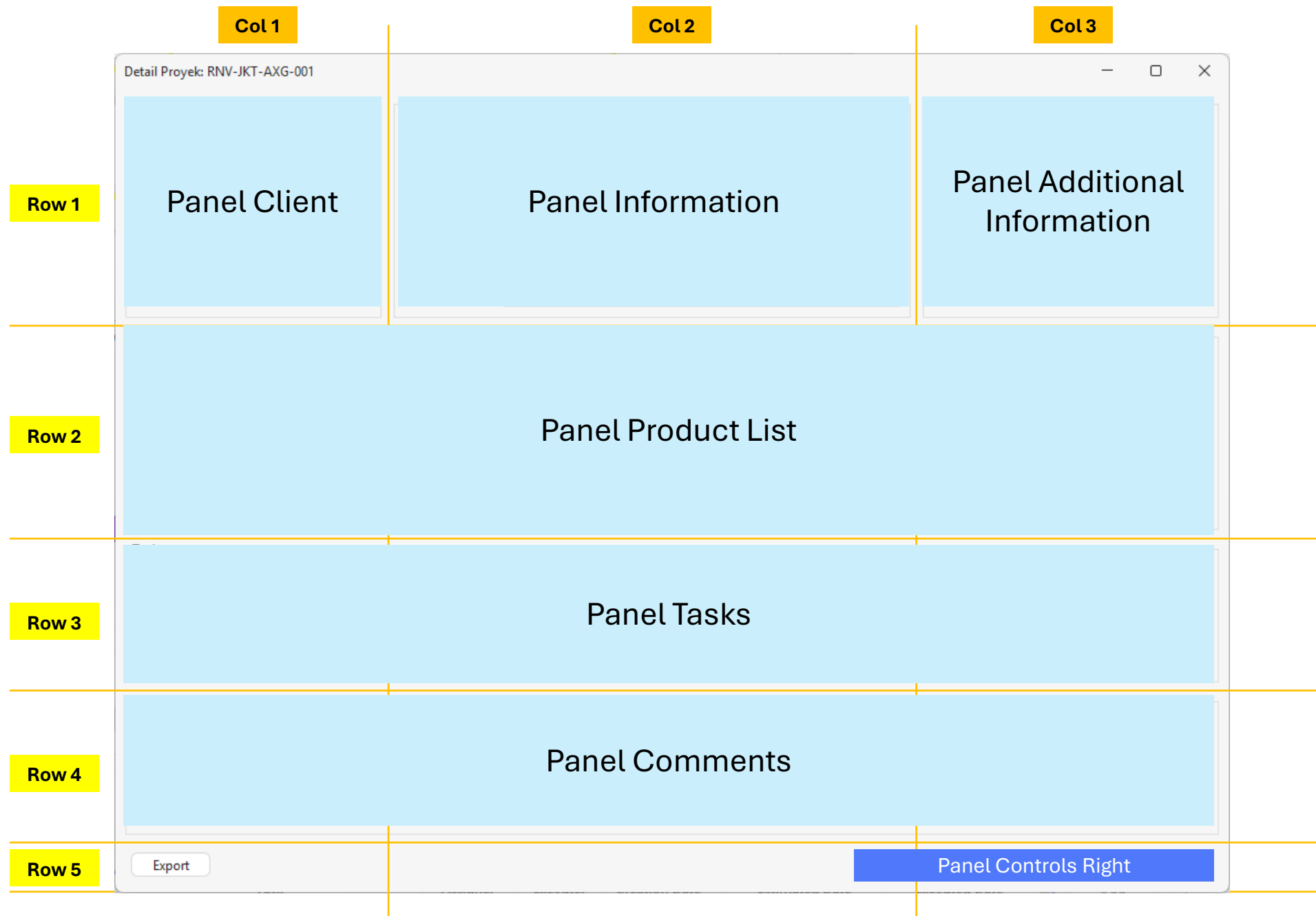






renovation-app-2 - RenovationApp.java

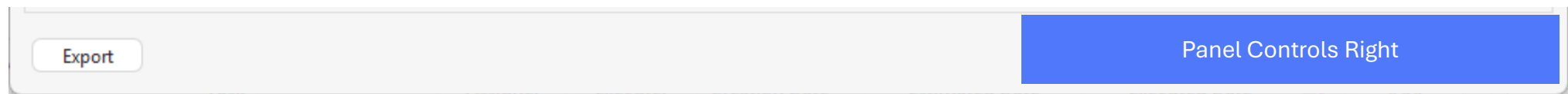
```
202      /** Deklarasi Panel Controls */  
203      JPanel panelControls = new JPanel(new MigLayout("insets 0", "[grow, left][right]");  
204
```

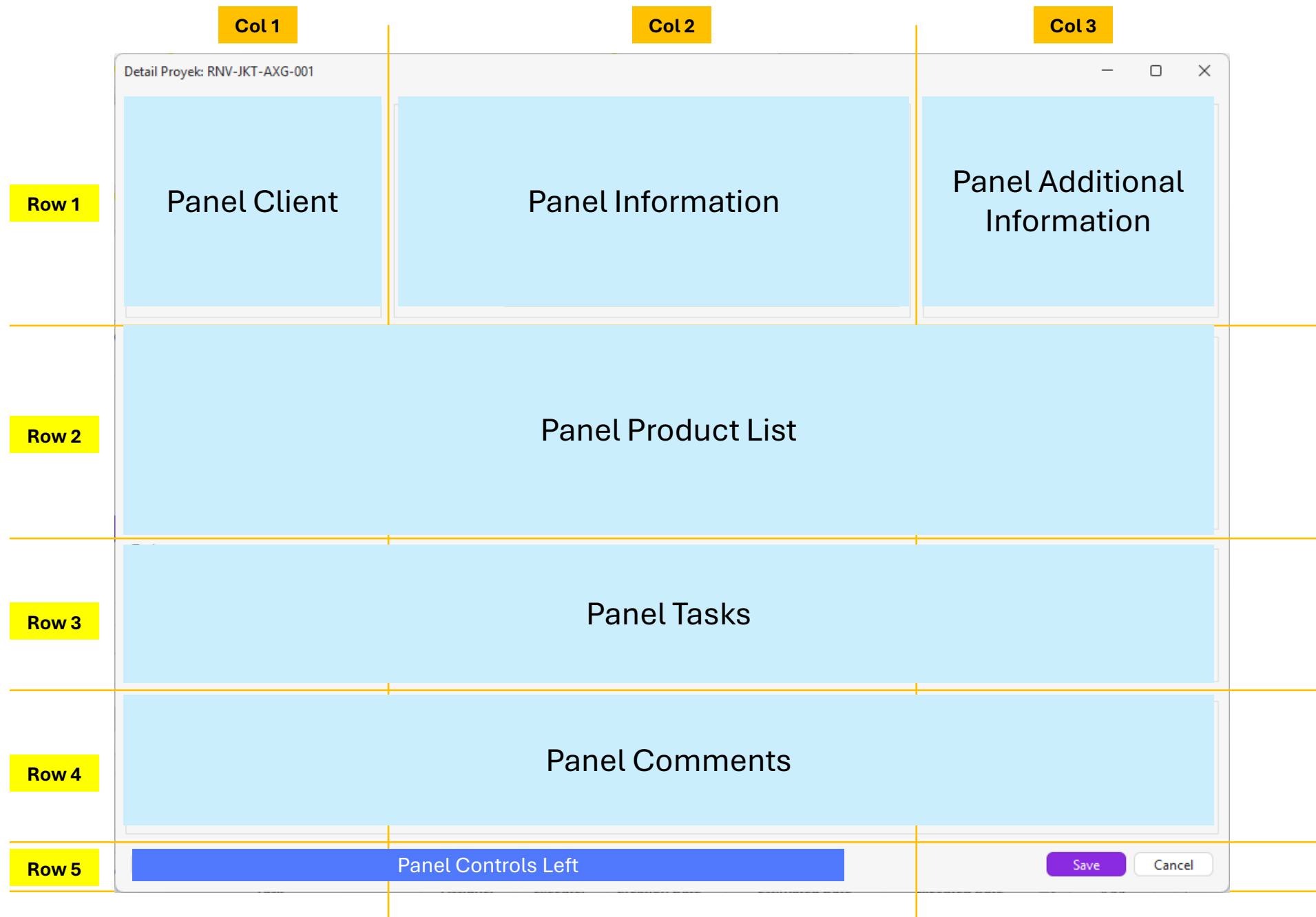




renovation-app-2 - RenovationApp.java

```
205      /** Deklarasi Panel Controls (Left) */  
206      JPanel panelControlsLeft = new JPanel(new MigLayout());  
207      panelControlsLeft.add(new JButton("Export"));  
208      panelControls.add(panelControlsLeft);  
209
```

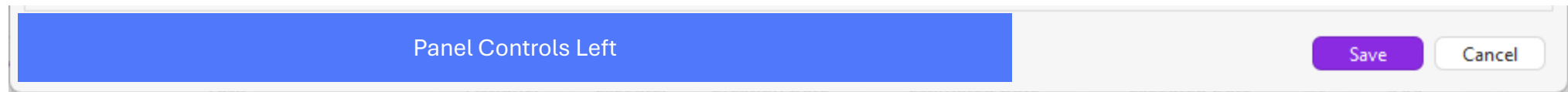






renovation-app-2 - RenovationApp.java

```
210      /** Deklarasi Panel Controls (Right) */
211      JPanel panelControlsRight = new JPanel(new MigLayout());
212      JButton buttonSave = new JButton("Save");
213      buttonSave.putClientProperty("FlatLaf.style", buttonColor);
214      panelControlsRight.add(buttonSave);
215      panelControlsRight.add(new JButton("Cancel"));
216      panelControls.add(panelControlsRight);
217      panelUtama.add(panelControls, "grow, span 3");
218
```



Modern Scrolling Chaining (Nested Scroll)

- Scrolling JFrame tidak dapat dilakukan saat mouse berada di atas JTable
- Baik JTable yang muncul scroll maupun JTable yang tidak muncul scroll
- Perlu ditambahkan kode program khusus untuk menangani kasus scrolling JFrame saat mouse berada di atas JTable

Detail Proyek: RNV-JKT-AXG-001

Client
Client ID: **101**
Name: **Bapak Alex Gunawan**
Phone: **(+62) 8123456789**
Registration No: **RNV-JKT-AXG-001**
Details

Information
Reserve days: Add Days
Buyer:
Seller:
Address:
Credit rating: S&P Update
☐ Approved:

Additional Information
Estimated close: Edit
Creation date: **2025-10-15**
Created by: **Admin**
Last edit date: **2025-11-16**
Last edited by: **Warnoto**
Closed date: **null**
Closed by: **null**

Product List

Renovation	Description	Part #	Quantity	List Price	Discount	Price	Wholesale Dis...	Wholesaler Pri...
Dapur	Keramik Dindi...	KW-PT-DLX-01	50	150000	0	7500000	5	7125000
Dapur	Lem Keramik L...	LMI-GRY-STD	5	50000	0	250000	0	250000
Dapur	Pipa PVC 3 inch	PVC-3IN-STD	12	35000	0	420000	10	378000
Kamar Mandi	Shower Set Mi...	SHW-MN-STL	1	850000	15	722500	5	686375
Kamar Mandi	Closet Duduk ...	CLO-DD-PRM	1	2500000	5	2375000	10	2137500
Ruang Tamu	Lampu Gantu...	LMP-HNG-CRS	2	750000	0	1500000	0	1500000

Subtotal list price: Rp 15.570.000

Total retailer price: Rp 15.182.500

Total wholesaler price: Rp 14.249.625

Add
Edit
Delete

Tasks

State	Task	Assigner	Executer	Creation Date	Estimated Date	Executed Date
Completed	Pengecatan ulang r...	Warnoto	Toni	2025-10-25	2025-10-28	2025-10-27
In Progress	Instalasi closet dudu...	Warnoto	Goang	2025-11-15	2025-11-17	
Delayed	Pemasangan kerami...	Warnoto	Toni	2025-11-01	2025-11-04	
Completed	Pemasangan pipa P...	Warnoto	Goang	2025-10-20	2025-10-21	2025-10-21
Not Started	Pembelian dan insta...	Warnoto	Toni	2025-11-16	2025-11-18	

Add
Edit
Delete

Comments



```
219      /** Deklarasi ScrollPane */
220      JScrollPane scrollPane = new JScrollPane(panelUtama);
221      scrollPane.getVerticalScrollBar().setUnitIncrement(18);
222      scrollPane.getVerticalScrollBar().putClientProperty("JScrollBar.fastWheelScrolling", true);
223      scrollPane.putClientProperty("JScrollPane.fastWheelScrolling", true);
224      scrollPane.setVerticalScrollBarPolicy(JScrollPane.VERTICAL_SCROLLBAR_AS_NEEDED);
225
226      frame.add(scrollPane);
227      frame.pack();
228      frame.setLocationRelativeTo(null);
229      frame.setVisible(true);
230
231      installModernScrollChaining(frame, scrollPane);
232
233  });
234
235  }
236
237  /** Deklarasi method installModernScrollChaining(frame, scrollPane) */
238  private static void installModernScrollChaining(JFrame frame, JScrollPane mainScrollPane) {
239
240  }
241
242 }
```

```

236
237  /** Deklarasi method installModernScrollChaining(frame, scrollPane) */
238  private static void installModernScrollChaining(JFrame frame, JScrollPane mainScrollPane) {
239      final double[] accumulatedDelta = {0.0};
240
241      Toolkit.getDefaultToolkit().addAWTEventListener(event -> {
242          if (!(event instanceof MouseWheelEvent mwe) || mwe.isConsumed()) return;
243
244          Component source = mwe.getComponent();
245          if (!SwingUtilities.isDescendingFrom(source, frame)) return;
246
247          // --- CARI INNER JScrollPane (kecuali mainScrollPane) ---
248          JScrollPane inner = null;
249          for (Component c = source; c != null; c = c.getParent()) {
250              if (c instanceof JScrollPane sp && sp != mainScrollPane) {
251                  inner = sp;
252                  break;
253              }
254          }
255          // Jika tidak ada JScrollPane sama sekali → langsung ke main (misal JLabel, JTextField, dll.)
256          if (inner == null) {
257              // Bisa langsung return atau biarkan ke mainScrollPane (opsional)
258              return;
259          }
260
261          JScrollBar vbar = inner.getVerticalScrollBar();
262          double rotation = mwe.getPreciseWheelRotation();
263          if (rotation == 0) return;
264
265          boolean scrollDown = rotation > 0;
266          boolean scrollUp    = rotation < 0;
267

```

```

267
268 // --- KUNCI: PERIKSA APAKAH MASIH BISA DI-SCROLL KE ARAH TERSEBUT ---
269 boolean canScrollFurther = false;
270
271 if (vbar != null && vbar.isVisible()) {
272     // Ada scrollbar → cek apakah masih ada ruang
273     int value = vbar.getValue();
274     int extent = vbar.getModel().getExtent();
275     int max = vbar.getMaximum();
276
277     boolean atBottom = (value + extent >= max - 1);
278     boolean atTop = (value <= 1);
279
280     canScrollFurther = (scrollDown && !atBottom) || (scrollUp && !atTop);
281 } else {
282     // TIDAK ADA SCROLLBAR (data pendek) → anggap SUDAH MENTOK di kedua arah
283     // Artinya: langsung boleh propagasi ke frame
284     canScrollFurther = false;
285 }
286
287 // Jika MASIH BISA scroll di dalam tabel → biarkan Swing yang tangani
288 if (canScrollFurther) {
289     accumulatedDelta[0] = 0.0;
290     return;
291 }
292

```

```

292
293     // Jika TIDAK BISA scroll lagi (mentok atau tidak ada scroll) → propagasi ke frame
294     accumulatedDelta[0] += rotation;
295     if (Math.abs(accumulatedDelta[0]) < 0.7) return;
296
297     JScrollBar mainBar = mainScrollPane.getVerticalScrollBar();
298     int delta = (int) Math.signum(accumulatedDelta[0]) * mainBar.getUnitIncrement();
299
300     int newValue = mainBar.getValue() + delta;
301     newValue = Math.max(mainBar.getMinimum(), Math.min(mainBar.getMaximum() - mainBar.getModel().getExtent(), newValue));
302     mainBar.setValue(newValue);
303
304     accumulatedDelta[0] = 0.0;
305     mwe.consume();
306
307     }, AWTEvent.MOUSE_WHEEL_EVENT_MASK);
308 }
309
310 }

```



D3 Teknik Informatika (TI)
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Politeknik Negeri Indramayu

Selesai

Terima kasih 🙏