

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Drawing;
5 using System.Data;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 using Nihulon2.Model;
12 using System.Collections;
13
14 namespace Nihulon2.RelationsList
15 {
16     /*
17     * The class of view that displays the data of items related to exams
18     * like divisions, courses and rooms.
19     * IRelationsListView - interface that provides methods to the controller ↗
20     * for
21     * displaying the data
22     */
23     public partial class RelationsList_View : UserControl, IRelationsListView
24     {
25         // instance of the controller that manages this view
26         RelationsList_Controller _controller;
27
28         public RelationsList_View()
29         {
30             InitializeComponent();
31
32             // Fill the combo box with types of related items
33             cbo_ItemType.Items.Add("חטיבות");
34             cbo_ItemType.Items.Add("מגמות");
35             cbo_ItemType.Items.Add("חדרים");
36
37             // Set names of columns in the data grid
38             initialiseDataGridColumns();
39         }
40
41         #region Events
42
43         // fill the data grid view with new values when relations type is ↗
44         // changed
45         private void cbo_ItemType_SelectedIndexChanged(object sender, ↗
46             EventArgs e)
47         {
48             string itemType = cbo_ItemType.SelectedItem.ToString();
49             if (itemType != "")
50                 _controller.loadDataByType(itemType);
51         }
52
53         // Call to the controller's method that inserts new related item into ↗
54         // the DB and reloads the grid
55         private void btnAddNewItem_Click(object sender, EventArgs e)
56         {
57         }
```

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53         // Get name of the item from the text box
54         string newItemName = txtAddNewItem.Text;
55         if (newItemName != "")
56         {
57             // Insert the new item and clear the text box
58             _controller.addNewItem(newItemName);
59             txtAddNewItem.Text = "";
60         }
61     }
62
63     // Change status of the selected item to disabled/not disabled
64     private void btn_Disable_Click(object sender, EventArgs e)
65     {
66         // If there is selected row at the table
67         if (dgvItems.SelectedRows.Count != 0)
68         {
69             // Get the name of selected item from data grid
70             string nameOfItem = "";
71             DataGridViewRow row = dgvItems.SelectedRows[0];
72             nameOfItem = row.Cells[0].Value.ToString();
73
74             if (nameOfItem != "") // if there is a name in the selected row
75             {
76                 _controller.changeStatusOfItem(nameOfItem);
77             }
78         }
79     }
80
81     /*
82     * Toggle between two modes:
83     * - show related items without disabled
84     * - show all related
85     */
86     private void cbShowDisabled_CheckedChanged(object sender, EventArgs e)
87     {
88         // Set the flag at the controller
89         _controller.ShowDisabled = cbShowDisabled.Checked;
90         // Reload data from the DB
91         _controller.loadDataByType(cbo_ItemType.SelectedItem.ToString());
92     }
93
94     #endregion
95
96     #region Interface
97     // binds the view with its controller
98     public void setController(RelationsList_Controller controller)
99     {
100         _controller = controller;
101     }
102
103     // fill the data grid with related items
104     public void fillDataGrid(RelatedItem[] items)
105     {
106
107         // Fill the grid
```

```
108         for (int i = 0; i < items.Length; i++)
109         {
110             // Create new row
111             DataGridViewRow row = new DataGridViewRow();
112             row.Cells.Add(new DataGridViewTextBoxCell());
113
114             // Add values to the new row
115             row.Cells[0].Value = items[i].Name.ToString();
116             if (items[i].IsDisabled)
117                 row.Cells[0].Value += " (מבוטל)";
118
119             // Add created row to the data grid
120             dgvItems.Rows.Add(row);
121         }
122     }
123
124     // Clear the data grid
125     public void clearDataGrid()
126     {
127         dgvItems.Rows.Clear();
128     }
129
130     // Set a type of related items as selected at the combo box
131     public void setRelatedItemsType(string type)
132     {
133         cbo_ItemType.SelectedItem = type;
134     }
135
136     // Reload the view
137     public void reloadView()
138     {
139         _controller.reload();
140     }
141
142     #endregion
143
144     #region Private methods
145
146     // Set names and other parameters for the dataGrid columns
147     private void initialiseDataGridColumns()
148     {
149         dgvItems.ColumnCount = 1;
150
151         // Set names of the columns
152         dgvItems.Columns[0].HeaderText = "שם";
153         dgvItems.Columns[0].AutoSizeMode = DataGridViewAutoSizeColumnMode.Fill;
154     }
155
156     #endregion
157 }
158 }
159
```