Developed computer system of didactic testing for testing students, designed for use on personal computers of the architecture of x-86/64, running the operating system Windows and Linux. When developing this software product, the Lazarus IDEv1.8.2 platform was used.

Lazarus IDEv1.8.2 developed an interface for working with the testing system. Also created a workspace and control panels.

The computer-test system includes two working applications:

* Administrator application
* "Customer" application

The following components were used to develop the system:

Form. The program window (applications). The form is an object, therefore it has its own properties, methods, events. The form is a container for other objects, i.e. it can contain buttons, lists, text boxes, and so on.

The system contains four forms for each application, respectively, and for the results window, test settings.

Control elements. Objects that serve to organize the interface between the user and the computer. A control is an object that has its own properties, methods, and events.

1) Label - serves to display text.

Label Properties:

* Caption - the text of the caption.
* Font - font, its size, shape.
* Alignment - text alignment:

2) Timer - Timer. Serves to repeat certain actions after a specified period of time.

Properties:

- Enabled - Enable / Disable.

3) The text field is Memo, Edit. Used to enter and display text.

Properties:

- ReadOnly - read only.

Enabled - the availability of the item. With this property, elements that the user can not use at this time are blocked. Blocked items are displayed in gray.

• True - the control is available to the user.

• Fasle - the control is not available.

Visible - the visibility of the control:

• True - visible.

• False - not visible.

4) Application window - Form. Used for registration, as well as for grouping switches. The name of the form displayed in the top line can be changed by changing the value in the Caption property field. Add components to the application window by selecting them from the list of available components, and then clicking on any place in the application window.

5) Components to create a dialog for saving and opening files - SaveDialog and OpenDialog. After the dialog is finished, it stores the full path to the file that was selected for saving or opening.

6) Component Popup Notifier for displaying tooltips.

7) MainMenu component for displaying the main menu.

8) Button.

Properties:

1. Caption - the inscription on the button.
2. Enabled - the availability of the item. With this property, elements that the user can not use at this time are blocked. Blocked items are displayed in gray.

• True - the control is available to the user.

• Fasle - the control is not available.

 Visible - the visibility of the control:

• True - visible.

• False - not visible.

9) Checkbox - checkbox. Contains a list of elements, opposite to each element there is a cell-"flag", several elements from the list can be selected at once.

10) Switch - RadioGroup. Contains a list of elements, opposite to each element there is a cell-"flag", several elements from the list can be selected at once.

11) ComboBox combo box. A drop-down list of items allows you to select one of the available items.

12) List of objects - TreeView, Listbox. Allows you to create and display a grouped list of items. Which can be chosen.