



CREATING APPLICATIONS IN THE DELPHI PROGRAMMING LANGUAGE

Olimova Munisaxon Erkinjon qizi
Senior Teacher of Vocational School No. 1
of Tashlak District of Fergana Region

Yunusova Gulnoraxon Odilovna
Senior Teacher of Kuva District Vocational
School of Fergana Region

Abdullayeva Dilnozaxon Tohirovna
Teacher of the Fargona Olympic and
Paralympic Sports Training Center

Annotation

In the Delphi environment, the focus of application development will be the project. The central part of the project is the form in which the components necessary for solving a particular task are placed. In this sequence-project - forms – components - we will consider the process of creating an application in the Delphi environment.

Keywords: Delphi, Application, Application, Component, formula, window, download.

When the Delphi environment is launched, a new project is automatically created. This is for our convenience. If you need to create a new project without reloading the Delphi environment, just run the File / New / Application menu command. As a result, the old project will be closed, and a new one will be created in its place. Delphi always puts a blank form in a new project.

In the process of developing the application, you add components to the form, write processing functions, add forms to the project, in general, design the application. To do this, run the File / Save All command of the main menu. If the file with the name you entered is available on the disk, Delphi will notify you and ask you if you want to rewrite the existing file or write it under a different name.

If we suddenly need to replace the project name with another name, click on the Menu File / Save Project As... we use the command. File / Save As if you need to rename the module... we use the command. These operations are elementary and do not require further explanation. File / Open of the main menu to open the previously saved project





in the Delphi environment... it is enough to execute the command. A dialog box will appear on the screen, where we must specify the directory and name of the project to be uploaded or select it from the list. (Figure 1)



Figure 1. Project selection window

With an open project, you can configure the following actions: fix, compile, run and save.

When creating a program, the programmer must always know at what stage of development he is at, have an idea of the composition of the project, quickly activate the desired file, add any new file to the project, or remove unnecessary ones, install compilation options, etc. For this, the Delphi environment has a project management window - Project Manager window. In fact, it is a visual tool for editing the main project file. The project management window is called Through The View / Project Manager command from the main menu. After this command is selected, a window will appear on the screen in which the project is presented in the form of a tree (Figure 2).

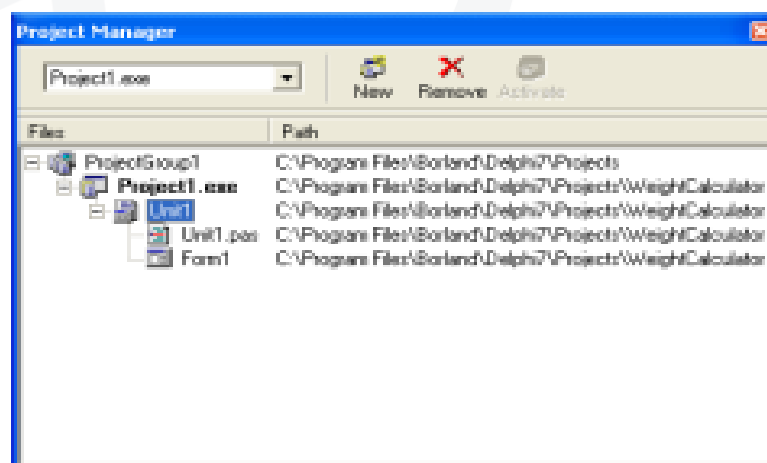


Figure 2. Project management window



The thickly written Project1 element is a project. Its name is the same as the executable file name, which is the result of compiling and assembling all project modules. The list of modules is displayed as sub-elements. If an element is a form, it in turn consists of two subordinate elements: the program module of the form (PAS file) and the description of the form (DFM file).

Project management is carried out using the context menu, which is called by right-clicking on the Project1 item (Figure 3).

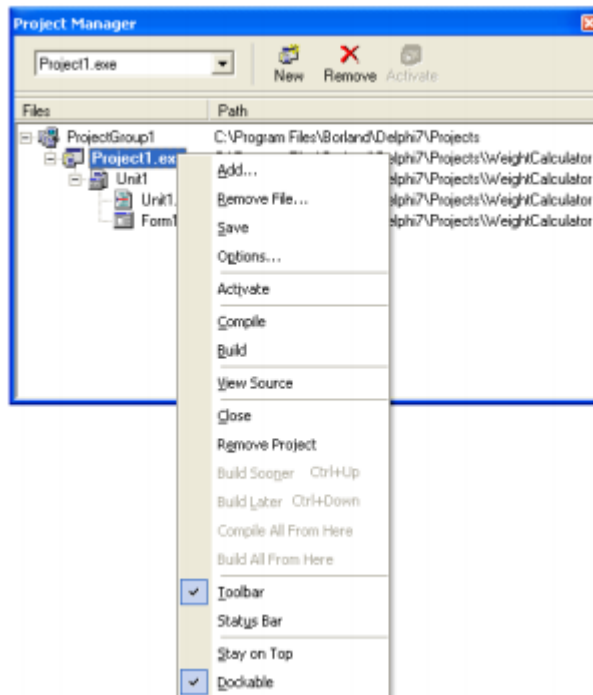


Figure 3. Context menu of the project

The purpose of the context menu commands is briefly described in the table below:

Add ... adds an existing file (module) to the project.

Remove File ... will remove the file (module) from the project.

Save Saves The Project on disk.

Options ... calls the project Options dialog box.

Activate makes the project active (when working with a group of projects)

Close closes the project.

Remove Project remove project from Group

Build Sooner takes the project up in a list that determines the order in which it will be built. Used when working with a group of projects

Build Later moves down the list that determines the order in which the project is built. Used when working with a group of projects.

Compile All from Here builds modified projects in order, starting with the selected project. Used when working with a group of projects



Build All from here builds all projects in order, starting with the selected project. Used when working with a group of projects

A separate module is controlled using the context menu, which is called by right-clicking on the corresponding item, for example, Unit1 (Figure 4).

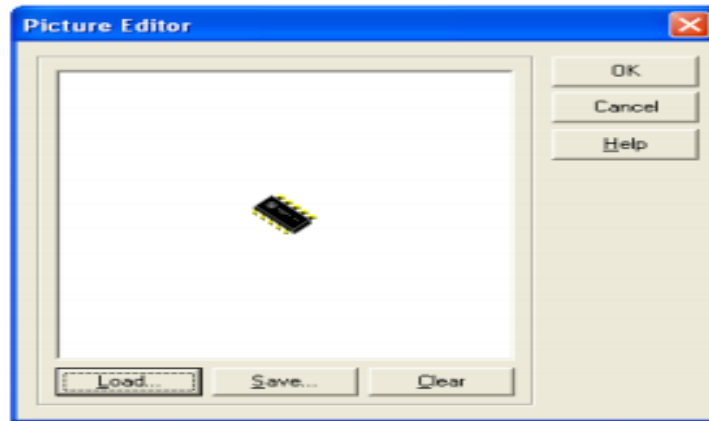


Figure 4. Module context menu in the project control window

The project has many different options with which you can control how the application is compiled and structured. You can set the project parameters in the project Options window. To do this, from the main menu Project / Options... select the command or call the context menu of the Project1 item in the project management window and options... select the command. A dialog box will appear on the screen; it is enough to set the required parameter values in it.

The project settings dialog box consists of several tabs. There are many parameters, so we will consider only the most used ones.

In the forms tab (Figure 5), you can set the main form of the application (basic form) and mark the forms that will be created simultaneously with the main form in the list of automatic creation of forms.

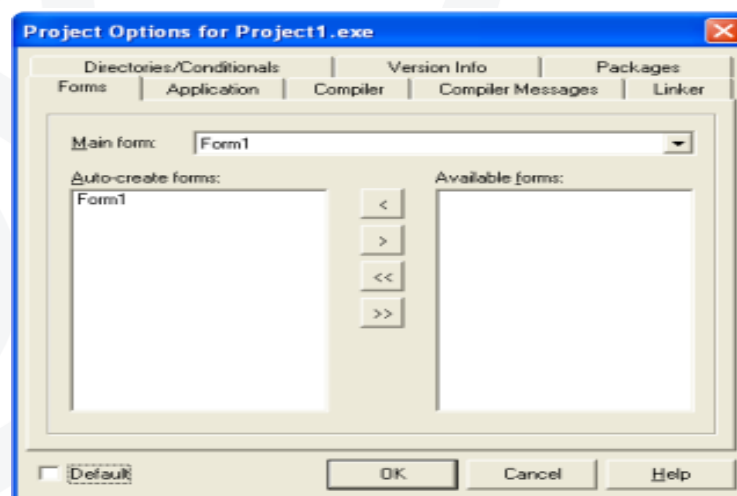


Figure 5. Project Options window. Forms tab



So, in the matter of creating applications in the Delphi programming language, we learned the following:

- what it is and what parts it consists of (form DESCRIPTION files, program module files, main project file, etc.);
- Open, Save, run and manage the project using the Project Manager window; - what is the form, how to change its style, size, location, color, switch from the main form to the secondary and vice versa, etc.
- what is a component, where to get it, where to put it, how to organize things in a group of components;
- Who manages the application from the inside (App object) and who helps it in this (Screen, Printer, Clipboard objects).

List of Used Literature

1. Abzhalov, S., & Matmusayeva, M. (2016). Появление течения хариджитов. Вестник КазНУ, Серия Религиоведение, 5(1), 46-54.
2. Alijon, A., Xoldorovich, S. Z., & Abbosovna, G. M. (2022). Technology of Individualization of Learning. Spanish Journal of Innovation and Integrity, 6, 291-297.
3. Alimdjanovna X. M. et al. CLIMATE CONTROL AND LIGHT CONTROL IN A SMART HOME //European Journal of Interdisciplinary Research and Development. – 2022. – Т. 8. – С. 149-155.
4. Azamovna, M. M. (2022). MAKTABGACHA YOSHDAGI BOLALARNI MAFKURA RUHIDA TARBIYALASH USULLARI. O'ZBEKISTONDA FANLARARO INNOVATSIYALAR VA ILMIY TADQIQOTLAR JURNALI, 1(9), 254-257.
5. Dilova N.G. (2021). O'qituvchi-o'quvchi hamkorligini vujudga keltirishning pedagogik ahamiyati. Science and Education. Vol. 2, Issue 10, 567-576 betlar
6. Dilova N.G. (2021). O'quvchilarning shaxsiy sifatlari - pedagogik hamkorlikning dastlabki tamoyili. Science and Education. Vol. 2, Issue 10, 558-566 betlar.
7. Dilova N.G. (2021). Pedagogik hamkorlik jarayonining mazmuni va uni tashkil etish tamoyillari. Science and Education. Vol. 2, Issue 10, 547-557 betlar.
8. Jo'rayev V. T. The advantage of distance learning courses in the process of education //Scientific Bulletin of Namangan State University. – 2019. – Т. 1. – №. 9. – С. 220-224.
9. Jo'rayev Vohid Tojimatovich A. M. et al. Working With Geospatial and Descriptive Data in A Geoinformation System //Periodica Journal of Modern Philosophy, Social Sciences and Humanities. – 2022. – Т. 11. – С. 113-116.



10. Kholdorovich, S. Z. (2022). STAGES OF FORMATION OF STUDENTS' MATHEMATICAL COMPETENCES. Emergent: Journal of Educational Discoveries and Lifelong Learning (EJEDL), 3(11), 13-19.
11. Kholdorovich, S. Z., & Zayniddinovich, S. K. (2022). MAIN STAGE AND PRINCIPLES OF ORGANIZING THE PROCESS OF MATHEMATICAL MODELING. Web of Scientist: International Scientific Research Journal, 3(10), 933-939.
12. Matmusayeva, M. (2022). MEDIA SPACE AND ITS INFLUENCE ON THE DEVELOPMENT OF PRESCHOOLERS. Modern Journal of Social Sciences and Humanities, 4, 358-361.
13. Mukhtoraliyevna, Z. S. (2022). DIFFERENCES IN FREQUENCY OF USE OF CONGRUENT WORDS. Conferencea, 43-45.
14. Mukhtoraliyevna, Z. S., & G'aniyevna, M. (2022). TYPES OF SPEECH AND ITS CHARACTERISTICS. БАҲҚАРОРЛИК ВА ЕТАКЧИ ТАДҚИҚОТЛАР ОНЛАЙН ИЛМИЙ ЖУРНАЛИ, 184-189.
15. qizi Tursunova, D. T. (2021). PRINCIPAL AND IMPORTANT FACTORS IN THE FORMATION OF SOCIAL ACTIVITY STUDENT WOMEN. CURRENT RESEARCH JOURNAL OF PEDAGOGICS, 2(05), 53-62.
16. Rasulova Z. (2021). Pedagogik dasturiy vositalardan foydalanib bo'lajak texnologiya fani o'qituvchilarining kasbiy mahoratini oshirish yo'llari. Science and Education. Vol. 2, Issue 10, 416-426 betlar.
17. Rasulova Z.D. (2021). Talabalarning kreativligini rivojlantirishda masofaviy ta'limning o'rni. Science and Education. Vol. 2, Issue 10, 439-448 betlar.
18. Sayfutdinovna, A. B., Farkhadovich, T. D., & Imomovna, T. N. (2021). Methodology Of Developing Logical Thinking In The Process Of Teaching Mathematics In Grades 5-9 Students Ways To Apply In Practice The Didactic Complex Of Conditions For The Development Of Logical Thinking Of Students In Mathematics Lessons. European Journal of Molecular and Clinical Medicine, 8(1), 948-962.
19. Siddikov, Z. (2017). Structural Methods of Mathematic Model in Doing Minimization and Maximization Exercises. Eastern European Scientific Journal, (2), 44-48.
20. Sobirjonovich, S. I. (2022). EASTERN THINKERS' VIEWS ON EVERYWHERE EDUCATION OF CHILDREN. BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI, 309-314.



21. Sobirjonovich, S. I. (2022). FAIRY TALES AND THEIR ROLE IN EDUCATION OF PRESCHOOL CHILDREN. BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIIY JURNALI, 150-155.
22. Sobirjonovich, S. I. (2022). The Concept of Connected Speech and its Significance for the Development of Preschool Children. Spanish Journal of Innovation and Integrity, 5, 518-523.
23. To'xtasinova, N. I. (2019). Psevdoqovariq sohalar va ularning xossalari. FarDU ilmiy xabarlar, 1(2), 111-112.
24. Tursunova, D. (2022). PUBLIC ACTIVITIES AND ITS PERSONS. BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIIY JURNALI, 127-130.
25. Tursunova, D. T., Abobakirova, O. N., Buzrukova, D. M., Mahmudova, O. T., Ubaydullayeva, Z. H., & Kholmatova, N. N. (2022). Principal Principles And Important Factors Of Student Women's Social Activity. Journal of Positive School Psychology, 6262-6269.
26. Tursunova, Dilnavoz. "THE CONCEPT OF SOCIAL ACTIVITY AND ITS IMPORTANCE IN SOCIAL DEVELOPMENT." International Scientific and Current Research Conferences. 2021.
27. Yusupova A.K., To'xtasinova N.I. (2022). Developing Mathematical Intuition in Students. International Journal of Culture and Modernity, 495-499.
28. Yusupova, A. K., & Tokhtasinova, N. I. (2022). TYPICAL MISTAKES OF STUDENTS IN ANALYTICAL GEOMETRY AND DIAGNOSTICS OF THE CAUSES OF ERRORS. CURRENT RESEARCH JOURNAL OF PEDAGOGICS, 3(01), 1-8.
29. Zokirova Sohiba Mukhtoralievna, & Kholikova Mukhtasar Kurbonali qizi. (2022). GENRE MODEL OF THE CROSSWORD PUZZLE AS AN ENIGMATIC DISCOURSE. Emergent: Journal of Educational Discoveries and Lifelong Learning (EJEDL), 3(10), 98–103. <https://doi.org/10.17605/OSF.IO/DKBH5>
30. Zokirova Sohiba Mukhtoralievna, & Ruziboyeva Madina Salimovna. (2022). HISTORY OF UZBEK FOLK GAMES. Innovative Technologica: Methodical Research Journal, 3(10), 191–198. <https://doi.org/10.17605/OSF.IO/SF3MB>
31. A M., Мирзакаримова Н. (2021). О равномерной сходимости случайных полей в $C(S)$. Наманган давлат университети илмий ахборотномаси 1 (6 сон), 34-37.
32. М А., Мирзакаримова Н. (2018). Математик статистика тахлил килиш усулининг бир масалага татбиғи. ФарДУ илмий хабарлари 1 (6 сон), 11-16.



33. М. М., Мирзакаримова Н., Холматов А. (2018). Применения сравнений к признакам делимости. Фаннинг долзарб масалалари 1 (1), 37-39.
34. Матмусаева, М. (2022). МАКТАБГАЧА ТАЪЛИМ МУАССАСАСИ–МАКТАБГАЧА ЁШДАГИ БОЛАЛАР ИЖТИМОЙ ТАРБИЯ МАСКАНИ. IJODKOR O'QITUVCHSI, 2(20), 130-132.
35. Матмусаева, М. А. (2019). ИНТЕГРАЦИЯ В РАЗВИТИИ ЧУВСТВА РОДИНЫ В ВОСПИТАНИИ ДОШКОЛЬНИКОВ НА ВОСПИТАТЕЛЬНЫХ И ОБРАЗОВАТЕЛЬНЫХ ЗАНЯТИЯХ. Актуальные научные исследования в современном мире, (3-4), 103-106.
36. Сиддиков, З. Х., & Матгазиев, Х. М. (2022). ОЗНАКОМЛЕНИЯ УЧАЩИХСЯ С МЕТОДАМИ МАТЕМАТИЧЕСКОГО МОДЕЛИРОВАНИЯ: Сиддиков Зайниддин Холдорович, Старший преподаватель, доктор философии по педагогическим наукам (PhD) Ферганский государственный университет, доцент, кандидат технических наук, Ташкентский архитектурно-строительный институт. Образование и инновационные исследования международный научно-методический журнал, (6), 210-217.
37. Турсунова, Д. (2021). НОВЫЕ ПЕДАГОГИЧЕСКИЕ МЕТОДЫ В ОБУЧЕНИИ РУССКИЙ ЯЗЫК ИХ ПРАКТИЧЕСКОЕ ЗНАЧЕНИЕ И ЭФФЕКТИВНОСТЬ НА ЗАНЯТИЯХ. Oriental renaissance: Innovative, educational, natural and social sciences, 1(9), 728-733.
38. Х. А., Мирзакаримова Н., Уринбоев Ш. (2021). Алгебра ва сонлар назарияси фанидан талабалар билимини назорат қилишда Б.Блум таксономиясига асосланган ностандарт тестлардан фойдаланишни афзалликлари. Yoshlaryangi O'zbekiston ,yangi renessans bunyodkorlari 1 (1), 32-34.

