1 - INSTALL FIREBIRD

The "**RD - Campos Personalizados**" software uses the **Firebird version 2.1** database, so Firebird must be installed on the computer where the software will run.

The following is a step-by-step guide that can help you install the database.

1 - The Firebird version 2.1 installer is located in the "**Softwares/Banco de Dados**" folder. In this folder there are two Firebird installers. Select the installer according to the architecture of your Windows operating system. Below is table 01 to assist in selecting the Firebird installer.

Architecture Operating System	Firebird Installer
x86 (32-bits)	x64 (64-bits)
Firebird-2.1.7.18553_0_Win32.exe	Firebird-2.1.7.18553_0_x64

Table 01: Firebird installer

2 - To install it simply confirm the messages during installation. The only change is on the "**Selecione tarefas adicionais**" screen, which you can see in figure 01.
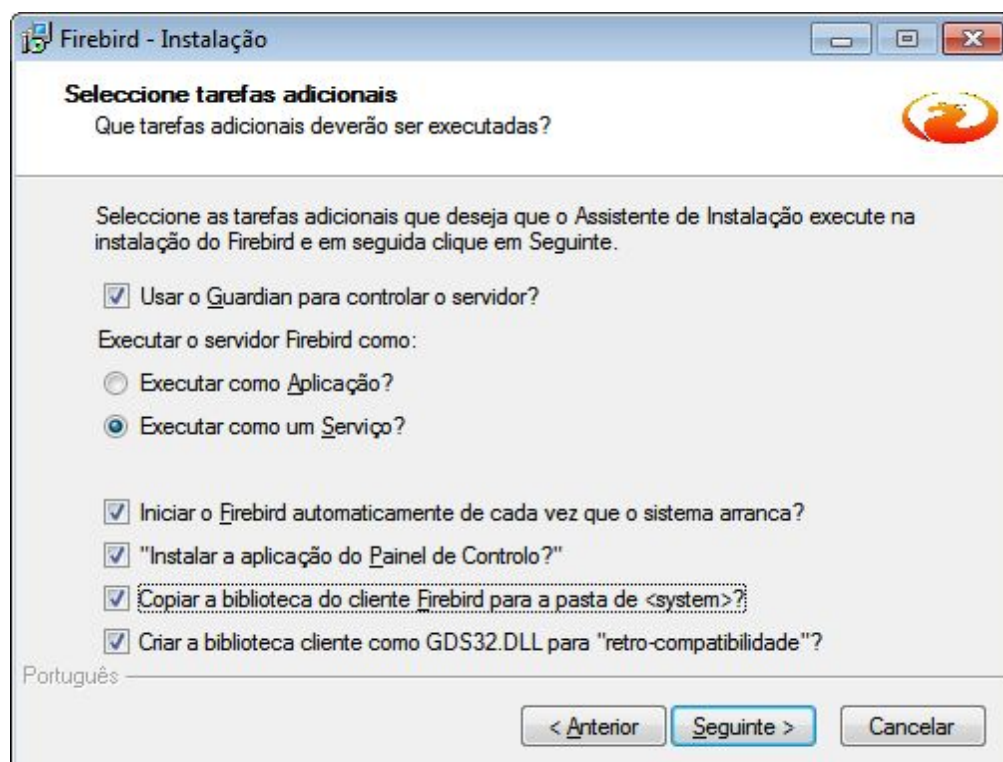

Figure 01: Screen options Select additional tasks

3 - If you want to use software to view your database, you can use "**ibexpert.exe**" in the "**Softwares/Banco de Dados**".

2 - INSTALL DELPHI

The "**RD - Campos Personalizados**" software was developed in the Object Pascal programming language (Delphi version 7). If you need to install Delphi, it can be found in the "**Softwares/Delphi 7"** file "**install.exe**". The Delphi serial is in the file "**serial.txt**".

3 - INSTALLING COMPONENTS

If you want to open the "**RD - Campos Personalizados**" software project by Delphi, you must install the "**Zeos**" component package for its correct operation. Zeos is a package of components responsible for connecting the software to the database.

The following is a step-by-step guide that can assist you in installing the Zeos component package.

1 - With Delphi 7 open, click File, Open Project, and choose the folder "**Softwares\Componentes\Zeos6.6.6\packages\delphi7**" and open the file "**ZeosDbo.bpg**". Check figure 02 with the ZeosDbo.bpg file open.
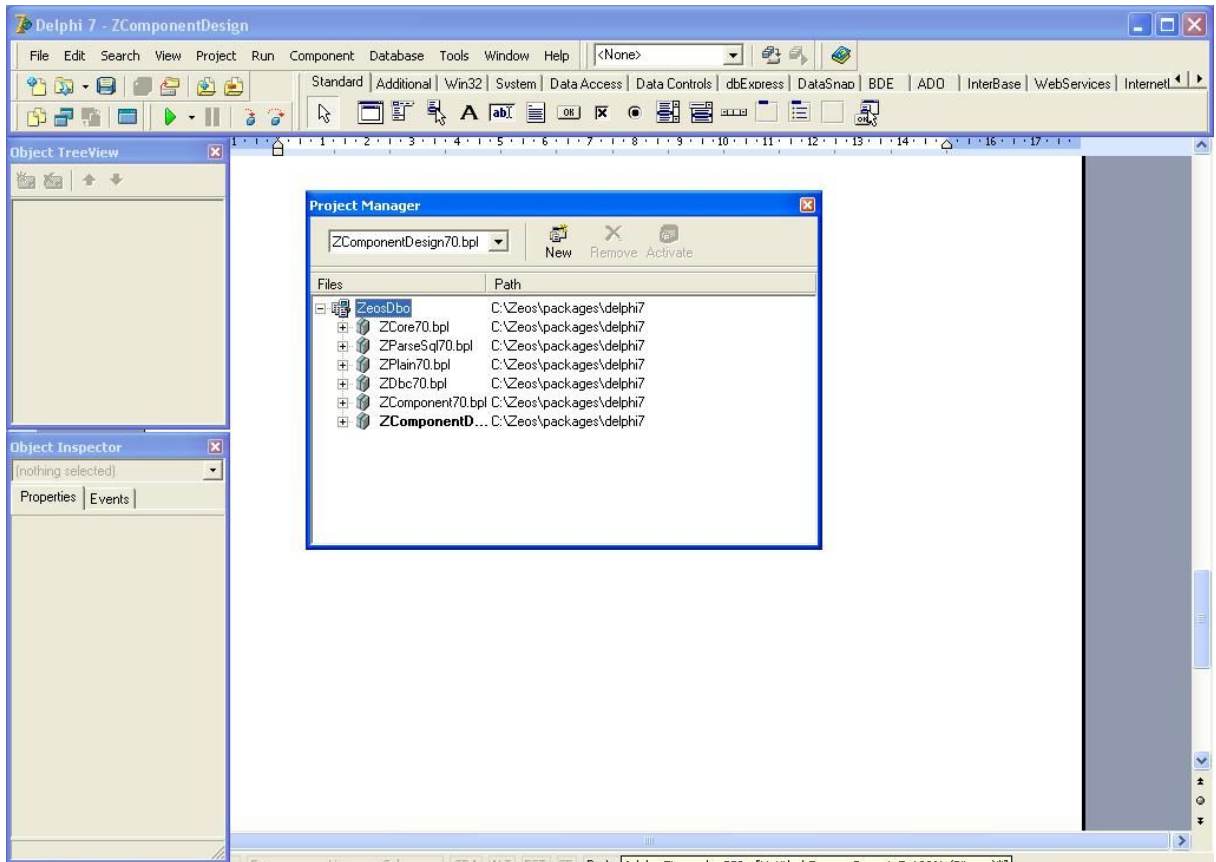
Figure 02: ZeosDbo.bpg file

2 - In Delphi, click "**Project**" and "**Compile All Projects**". Check figure 03.
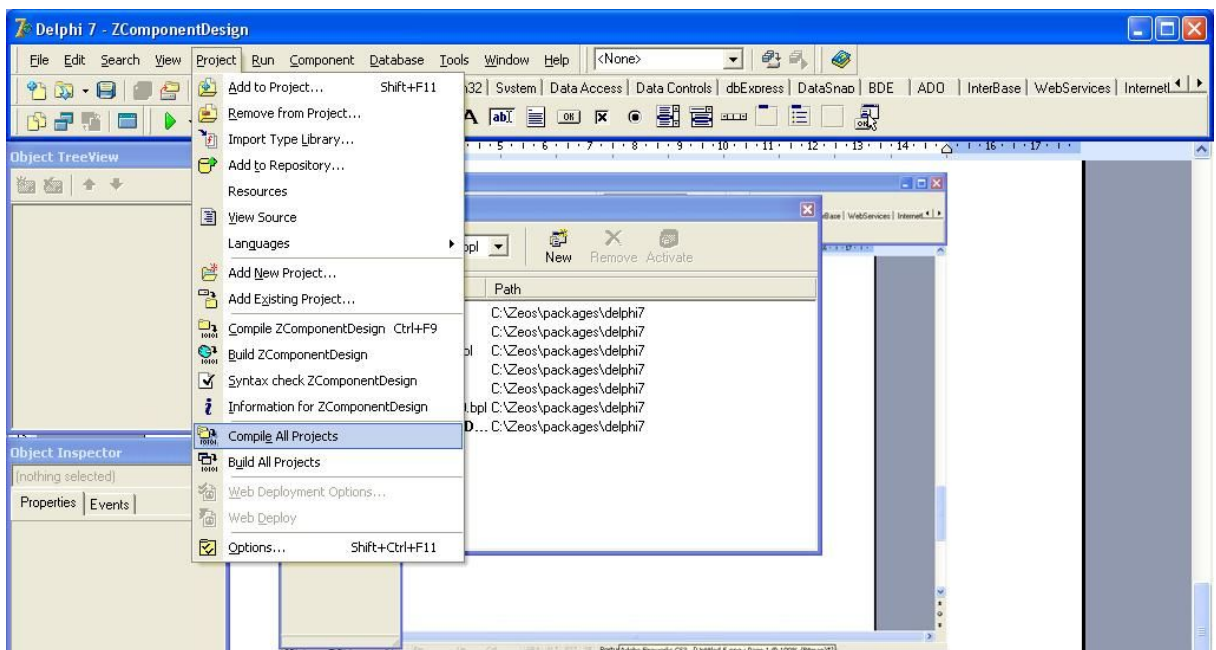

Figure 03: Delphi, Project menu -> Compile All Projects

3 - In the "**Project Manager**" window, right-click "**ZComponentDesign70.bpl**" and click "**Install**." Check figure 04.
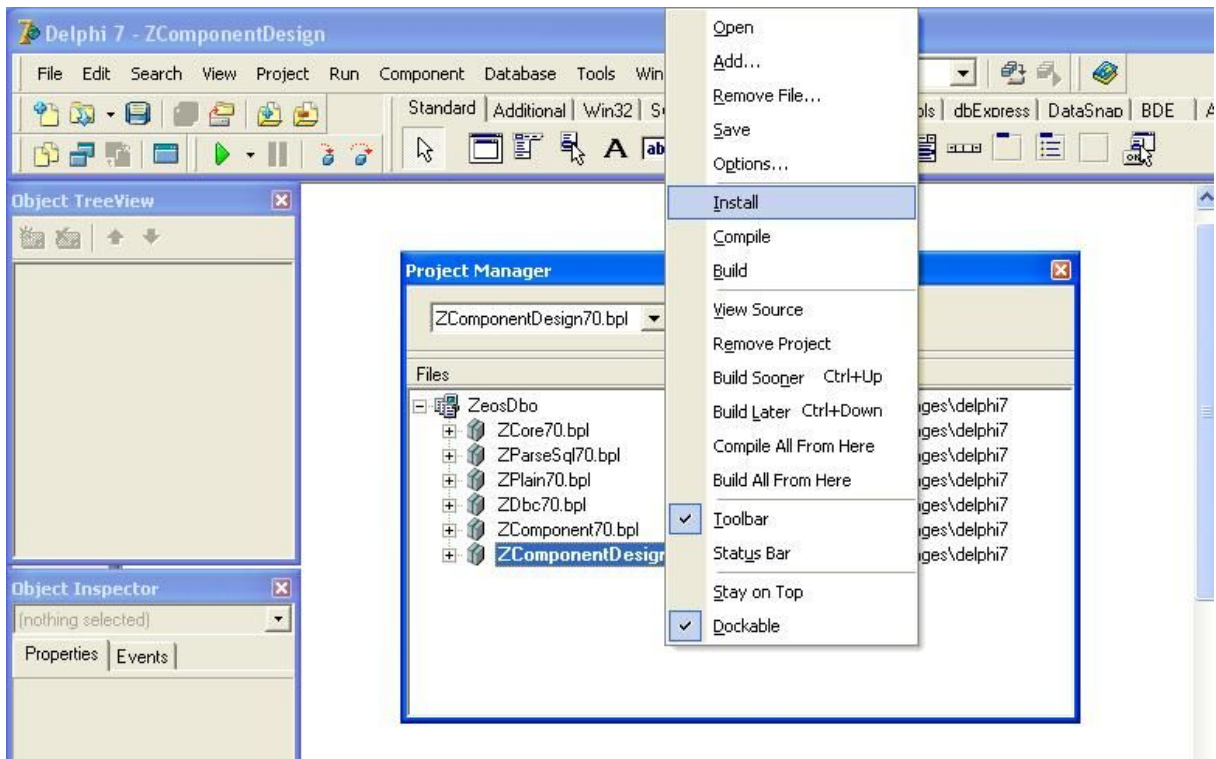

Figure 04: Installing package ZComponentDesign70.bpl

4 - If everything occurred correctly the Zeos was installed in Delphi. Check figure 05.
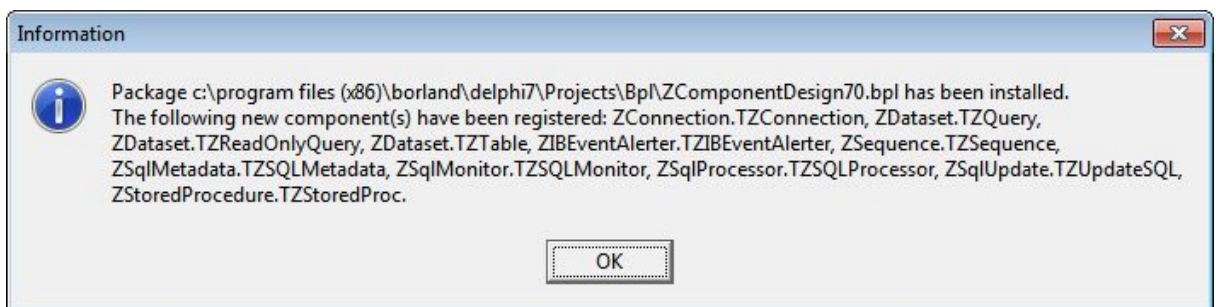

Figure 05: Message stating that Zeos has been installed

5 - Zeos folders should be added to the Delphi Library Path. To do this in Delphi, click on "**Tools**" and "**Environment Options**". In the Environment Options screen select the "**Library**" tab and click the button with the three points next to the "**Library Path**" option. Check figure 06.
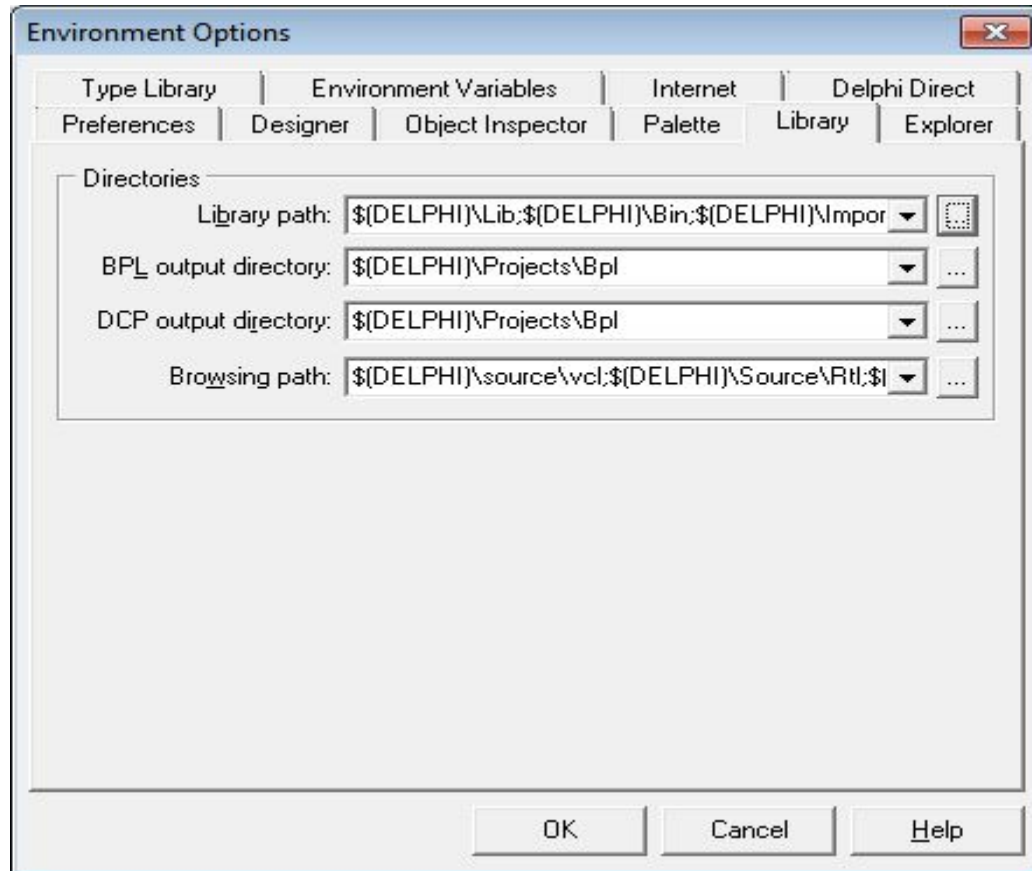
Figure 06: Library Path on the Environment Options screen

6 - After clicking the button with the three dots will open the "**Directories**" screen. In this screen click the button with the three dots, and select the directories of table 02 (one at a time). After selecting a directory click the "**Add**" button. In Figure 07 you can check the Directories screen.

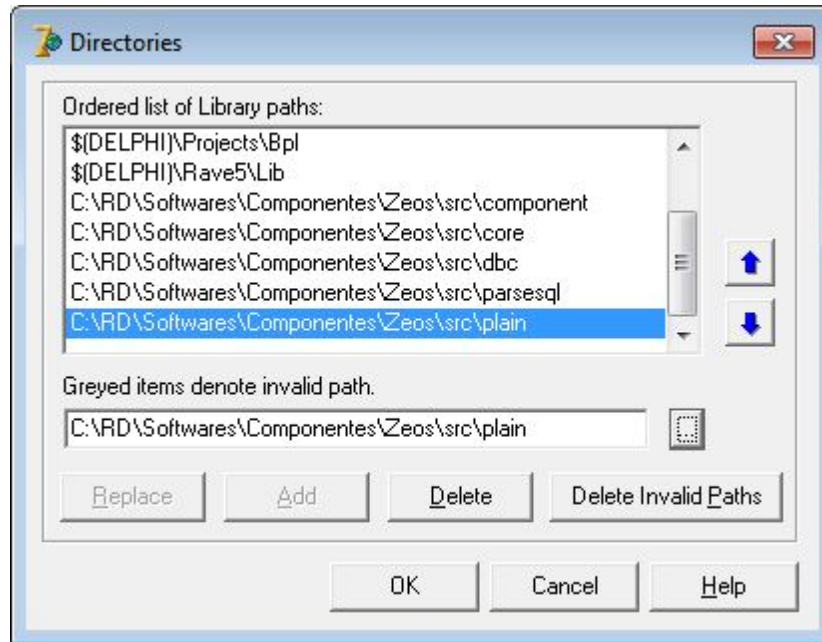| |
|---|
| Softwares\Componentes\Zeos\src\component |
| Softwares\Componentes\Zeos\src\core |
| Softwares\Componentes\Zeos\src\dbc |
| Softwares\Componentes\Zeos\src\parsesql |
| Softwares\Componentes\Zeos\src\parsesql |
| Softwares\Componentes\Zeos\packages\delphi7\build |

Table 02: Zeos directories to be added to the Library Path

Figure 07: Directories screen with the path already added to the library path

4 - PROJECT IN GITHUB

The mentioned project is in GitHub, more specifically in the following link: https://github.com/JonasAzevedo/RD.

If you want to download via HTTPS the link is: https://github.com/JonasAzevedo/RD.git.

5 - PREPARE DATABASE

When getting the GitHub database the same should come empty; The only populated table is "**TIPOS_CAMPOS**". If it does not contain the field types, you can create them according to Listing 01.

```
INSERT INTO "TIPOS_ CAMPOS" (codigo, descricao) VALUES (1, 'Texto');

INSERT INTO "TIPOS_ CAMPOS" (codigo, descricao) VALUES (2, 'Área de
Texto');

INSERT INTO "TIPOS_ CAMPOS" (codigo, descricao) VALUES (3, 'Caixa de
```

Seleção');

Listing 02: Script to create field types

6 - EXECUTE PROJECT BY DELPHI

The software project "**RD - Campos Personalizados**" is in the "**Aplicação**" folder "**prjRD.dpr**" file. To open it with Delphi, select the "**File**" and "**Open Project ...**" menu and select the file.

To run the project with Delphi, select the "**Run**" and "**Run**" menu or press the "**F9**" key.