



Poslovna softverska OS rešenja

Prof. dr Zoran Veličković, dipl. inž. el.

2021/22.



Akademija tehničko-vaspitačkih strukovnih studija odsek NIŠ



OS rešenje – bildovanje aplikacije FTPbox

Prof. dr Zoran Veličković, dipl. inž. el.

2021/22.



Sadržaj



- **BUILDING APLIKACIJE FTPBOX U VS**
 - FTPbox na GitHub-u
 - FTPbox na GitHub-u: GNU licenca
 - Preuzet projekat FTPbox-a za VS
 - Učitavanje projekta FTPbox u VS 2019
 - Arhitektura aplikacije FTPbox
 - Primer: dizajn prozor za FTPbox Options u VS-u
 - Izgradnja (kompajliranje) aplikacije FTPbox
 - Startovanje aplikacije FTPbox u VS-u
 - Početni ekran aplikacije FTPbox u VS-u
 - Komponente bildovane aplikacije FTPbox

Building aplikacije FTPbox u VS 2019

- **FTPbox** je **SOFTVER OTVORENOG KODA** koja omogućava sinhronizaciju datoteke sa vašeg računara na nekom serveru korišćenjem **FTP-a**.
- **FTPbox** omogućava pristup vašim datotekama bilo gde **BEZ PLAĆANJA PROSTOR NA DISKU** na nekom Web sajtu treće strane!
- Sa GitHub-a preuzeti **IZVORNI KOD** aplikacije FTPbox.
- U konkretnom slučaju možete preuzeti (ili klonirati) **PROJEKAT** koji je razvijen u VS-u i programskom jeziku C#.
- Potom, učitajte taj projekat u VS-u.
- U nastavku su date slike ekrana koji su dobijeni u VS 2019.
- Izgradite aplikaciju i startujte je!
- Srećno!

OS FTPbox na GitHub-u

GitHub - FTPbox/FTPbox: Synchron...

github.com/FTPbox/FTPbox

Product Team Enterprise Explore Marketplace Pricing

Search Sign in Sign up

FTPbox / FTPbox Public

Notifications Fork 91 Star 277

<> Code Issues 34 Pull requests 1 Actions Projects Wiki Security Insights

master 2 branches 13 tags

Go to file Code

JohnTheGr8 UI changes in setup

- FTPboxLib fix treating symlinks as files in SFT
- Windows UI changes in setup
- .gitignore small changes
- LICENSE Added LICENSE
- README.md updated readme

Clone

HTTPS GitHub CLI

`https://github.com/FTPbox/FTPbox.git`

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

About

Synchronize your files to your own server, via FTP

ftpbox.org/

Readme

GPL-3.0 license

277 stars

55 watching

91 forks

Releases 13

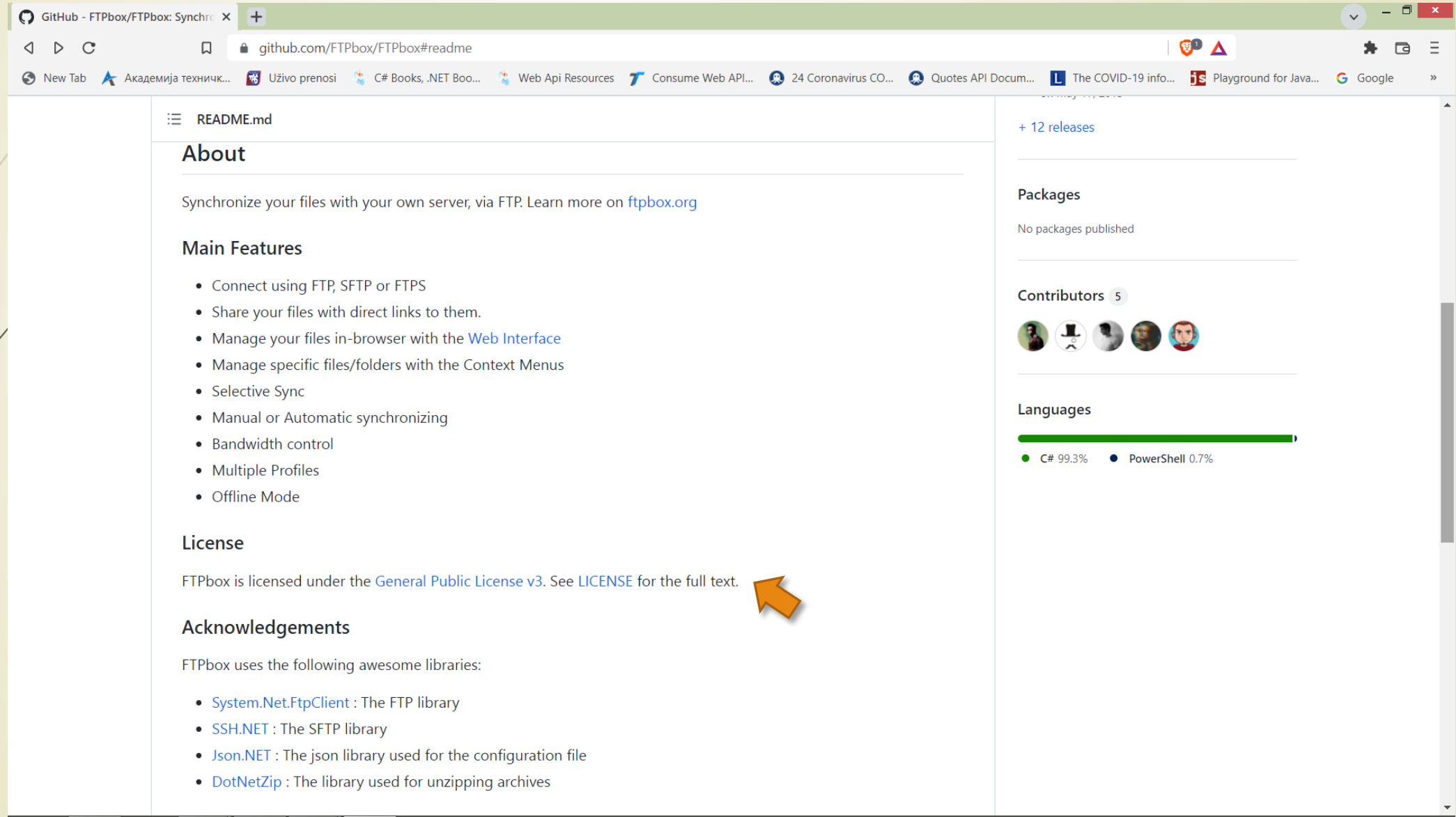
v2.6.3 Latest on May 17, 2015

+ 12 releases

Packages

No packages published

OS FTPbox na GitHub-u



GitHub - FTPbox/FTPbox: Synchron...
github.com/FTPbox/FTPbox#readme

README.md

About

Synchronize your files with your own server, via FTP. Learn more on ftpbox.org

Main Features

- Connect using FTP, SFTP or FTPS
- Share your files with direct links to them.
- Manage your files in-browser with the [Web Interface](#)
- Manage specific files/folders with the Context Menu
- Selective Sync
- Manual or Automatic synchronizing
- Bandwidth control
- Multiple Profiles
- Offline Mode

License

FTPbox is licensed under the [General Public License v3](#). See [LICENSE](#) for the full text.

Acknowledgements

FTPbox uses the following awesome libraries:

- [System.Net.FtpClient](#) : The FTP library
- [SSH.NET](#) : The SFTP library
- [Json.NET](#) : The json library used for the configuration file
- [DotNetZip](#) : The library used for unzipping archives

+ 12 releases

Packages

No packages published

Contributors 5

Languages

- C# 99.3%
- PowerShell 0.7%

OS FTPbox na GitHub-u: GNU licenca

The screenshot shows the GitHub repository page for the file `LICENSE` in the `FTPbox` repository. The page displays the GNU General Public License v3.0 text, a summary table of permissions and conditions, and a commit history section.

FTPbox / LICENSE (Public)

Notifications Fork 90 Star 274

Code Issues 34 Pull requests 1 Actions Projects Wiki Security Insights

master FTPbox / LICENSE Go to file

GNU General Public License v3.0

Permissions of this strong copyleft license are conditioned on making available complete source code of licensed works and modifications, which include larger works using a licensed work, under the same license. Copyright and license notices must be preserved. Contributors provide an express grant of patent rights.

Permissions	Limitations	Conditions
<ul style="list-style-type: none">✓ Commercial use✓ Modification✓ Distribution✓ Patent use✓ Private use	<ul style="list-style-type: none">✗ Liability✗ Warranty	<ul style="list-style-type: none">ⓘ License and copyright noticeⓘ State changesⓘ Disclose sourceⓘ Same license

This is not legal advice. [Learn more about repository licenses.](#)

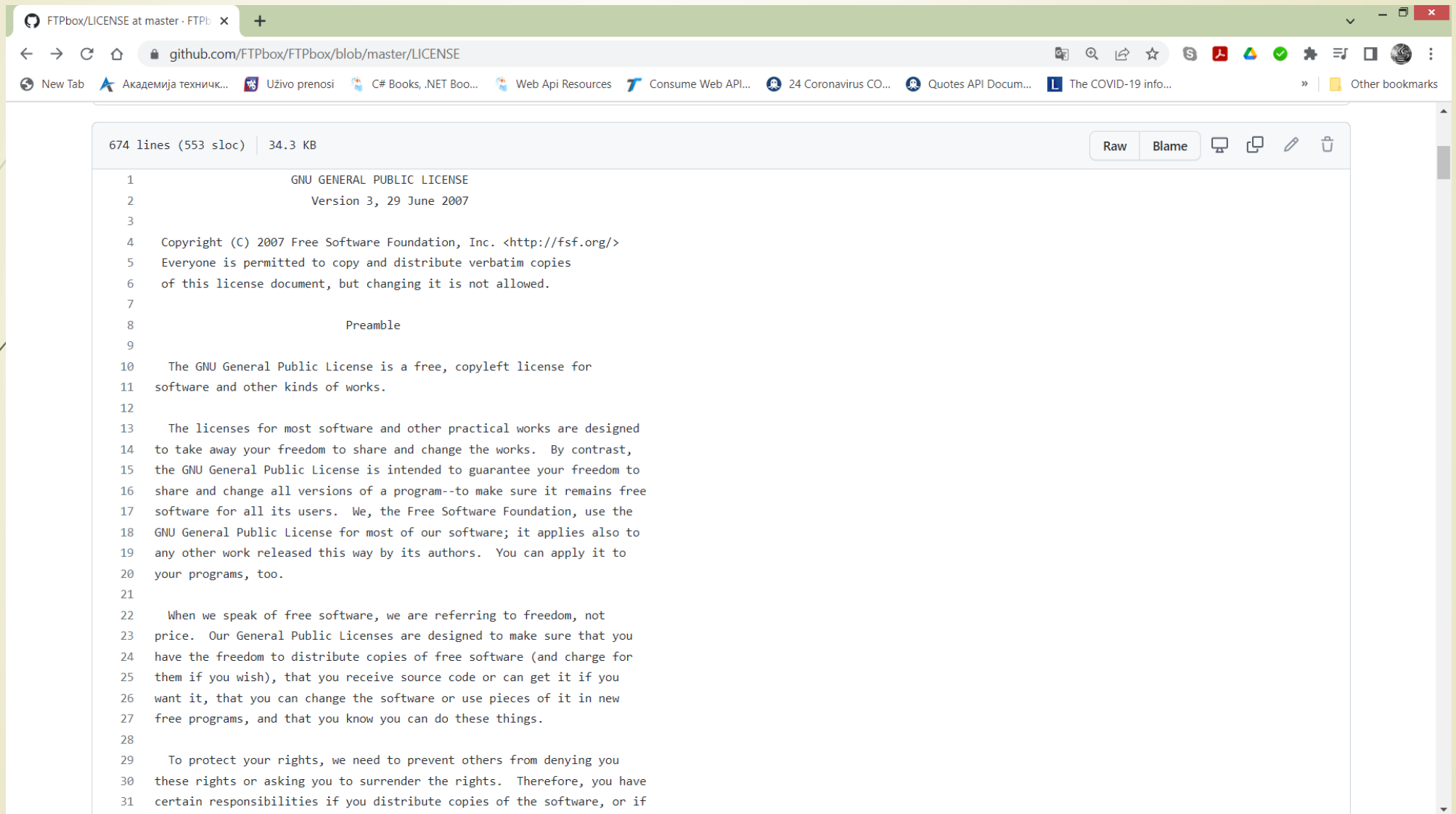
JohnTheGr8 Added LICENSE Latest commit bb7696d on Jun 28, 2013 [History](#)

1 contributor

674 lines (553 sloc) 34.3 KB Raw Blame

```
1 GNU GENERAL PUBLIC LICENSE
2 Version 3, 29 June 2007
3
4 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
5 Everyone is permitted to copy and distribute verbatim copies
```

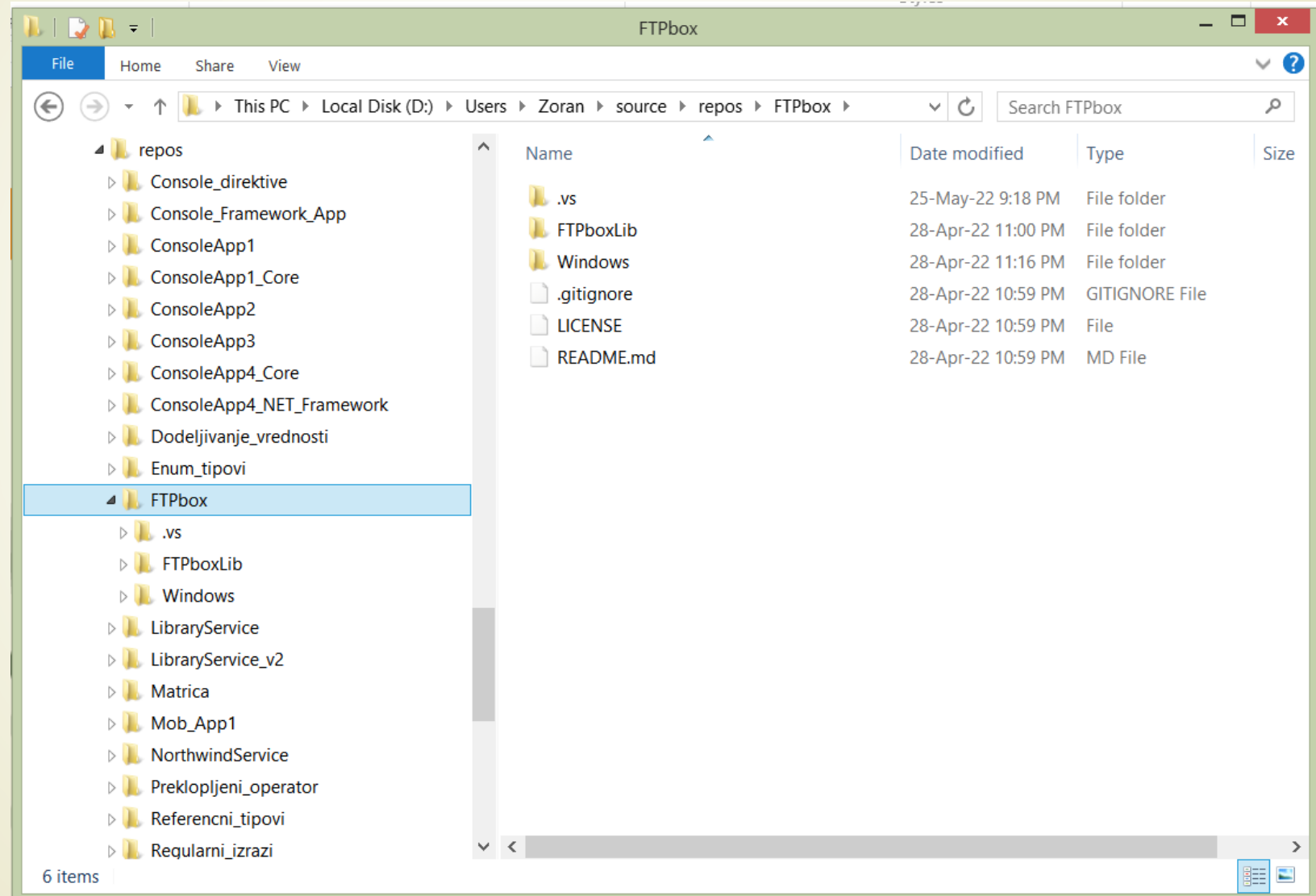
OS FTPbox: GNU licenca v3.0



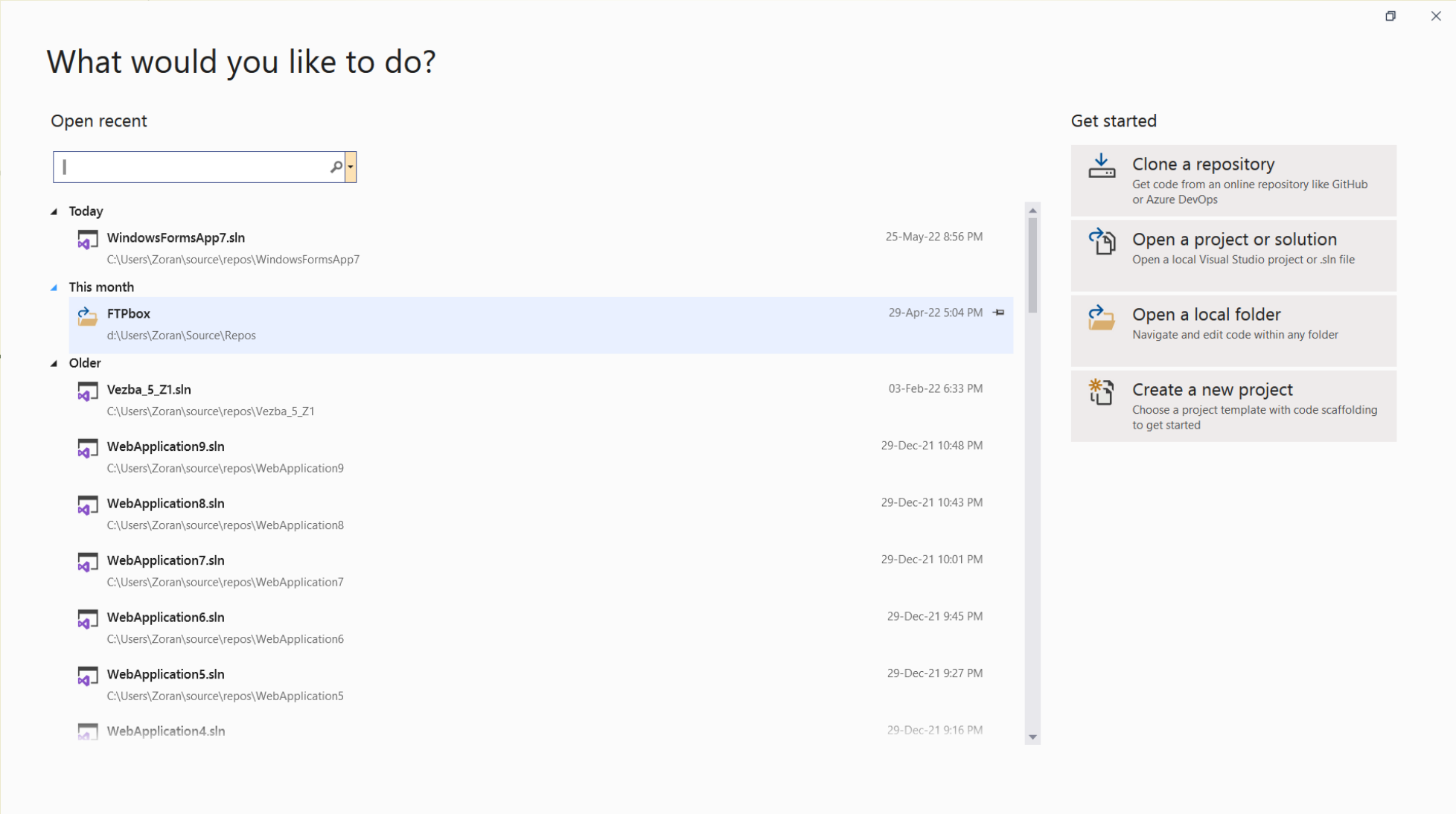
The screenshot shows a web browser window with the address bar displaying "github.com/FTPbox/FTPbox/blob/master/LICENSE". The page content is the text of the GNU General Public License v3.0, starting with "GNU GENERAL PUBLIC LICENSE" and "Version 3, 29 June 2007". The browser's address bar and tabs are visible at the top, and the code editor interface shows line numbers from 1 to 31.

```
674 lines (553 sloc) | 34.3 KB
Raw Blame
1          GNU GENERAL PUBLIC LICENSE
2          Version 3, 29 June 2007
3
4  Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
5  Everyone is permitted to copy and distribute verbatim copies
6  of this license document, but changing it is not allowed.
7
8          Preamble
9
10 The GNU General Public License is a free, copyleft license for
11 software and other kinds of works.
12
13 The licenses for most software and other practical works are designed
14 to take away your freedom to share and change the works.  By contrast,
15 the GNU General Public License is intended to guarantee your freedom to
16 share and change all versions of a program--to make sure it remains free
17 software for all its users.  We, the Free Software Foundation, use the
18 GNU General Public License for most of our software; it applies also to
19 any other work released this way by its authors.  You can apply it to
20 your programs, too.
21
22 When we speak of free software, we are referring to freedom, not
23 price.  Our General Public Licenses are designed to make sure that you
24 have the freedom to distribute copies of free software (and charge for
25 them if you wish), that you receive source code or can get it if you
26 want it, that you can change the software or use pieces of it in new
27 free programs, and that you know you can do these things.
28
29 To protect your rights, we need to prevent others from denying you
30 these rights or asking you to surrender the rights.  Therefore, you have
31 certain responsibilities if you distribute copies of the software, or if
```


Preuzet projekat FTPbox-a za VS




Učitavanje projekta FTPbox u VS 2019




What would you like to do?

Open recent








Today

-  **WindowsFormsApp7.sln** 25-May-22 8:56 PM
C:\Users\Zoran\source\repos\WindowsFormsApp7





This month

-  **FTPbox** 29-Apr-22 5:04 PM
d:\Users\Zoran\Source\Repos

Older

-  **Veжба_5_Z1.sln** 03-Feb-22 6:33 PM
C:\Users\Zoran\source\repos\Veжба_5_Z1
-  **WebApplication9.sln** 29-Dec-21 10:48 PM
C:\Users\Zoran\source\repos\WebApplication9
-  **WebApplication8.sln** 29-Dec-21 10:43 PM
C:\Users\Zoran\source\repos\WebApplication8
-  **WebApplication7.sln** 29-Dec-21 10:01 PM
C:\Users\Zoran\source\repos\WebApplication7
-  **WebApplication6.sln** 29-Dec-21 9:45 PM
C:\Users\Zoran\source\repos\WebApplication6
-  **WebApplication5.sln** 29-Dec-21 9:27 PM
C:\Users\Zoran\source\repos\WebApplication5
-  **WebApplication4.sln** 29-Dec-21 9:16 PM

Get started

-  **Clone a repository**
Get code from an online repository like GitHub or Azure DevOps
-  **Open a project or solution**
Open a local Visual Studio project or .sln file
-  **Open a local folder**
Navigate and edit code within any folder
-  **Create a new project**
Choose a project template with code scaffolding to get started

Arhitektura aplikacije FTPbox

The image displays four screenshots of the Visual Studio Solution Explorer, illustrating the architecture of the FTPbox application. Each screenshot shows a different view of the project structure:

- First Screenshot:** Shows the root of the FTPbox project. The main folder is FTPboxLib, which contains subfolders for Client, Console, Crypto, and Properties. It also lists various source files such as AccountController.cs, app.config, Common.cs, Enums.cs, EventArgs.cs, Exceptions.cs, Extensions.cs, FileLog.cs, FileLogItem.cs, FolderWatcher.cs, FTPboxLib.csproj, IgnoreList.cs, Notifications.cs, packages.config, Profile.cs, Settings.cs, SyncFilter.cs, SyncQueue.cs, SyncQueueItem.cs, TransferProgress.cs, TransferValidator.cs, Translations.cs, and WebInterface.cs. Other files include .gitignore, LICENSE, and README.md.
- Second Screenshot:** Shows the FTPboxLib folder expanded. It details the contents of Client (Client.cs, ClientItem.cs, FtpClient.cs, SftpClient.cs), Console (aConsole.cs, Log.cs), Crypto (AESEncryption.cs, FileMethods.cs), and Properties (AssemblyInfo.cs, AccountController.cs, app.config, Common.cs, Enums.cs, EventArgs.cs, Exceptions.cs, Extensions.cs, FileLog.cs, FileLogItem.cs, FolderWatcher.cs, FTPboxLib.csproj, IgnoreList.cs, Notifications.cs, packages.config, Profile.cs, Settings.cs, SyncFilter.cs, SyncQueue.cs).
- Third Screenshot:** Shows the Windows folder expanded. It details the contents of FTPboxLib (AssemblyInfo.cs, Resources.Designer.cs, Resources.resx, Settings.Designer.cs, Settings.settings) and Resources (all_synced.ico, app.config, AS.ico, btn_donate_SM.gif, folder.jpg, ftpboxnew.ico, offline.ico, regular.ico, regular_60.ico, settings.jpg, syncing.ico).
- Fourth Screenshot:** Shows the Windows folder expanded, focusing on the Forms subfolder. It lists files like fAccountDetails.cs, fAccountDetails.Designer.cs, fAccountDetails.resx, flgnoredExtensions.cs, flgnoredExtensions.Designer.cs, flgnoredExtensions.resx, fMain.cs, fMain.Designer.cs, fMain.resx, fSelectiveSync.cs, fSelectiveSync.Designer.cs, fSelectiveSync.resx, fTrayForm.cs, fTrayForm.Designer.cs, fTrayForm.resx, newversion.cs, newversion.designer.cs, newversion.resx, Setup.cs, Setup.Designer.cs, Setup.resx, Translate.cs, Translate.Designer.cs, Translate.resx, trayFormListItem.cs, trayFormListItem.Designer.cs, and trayFormListItem.resx.

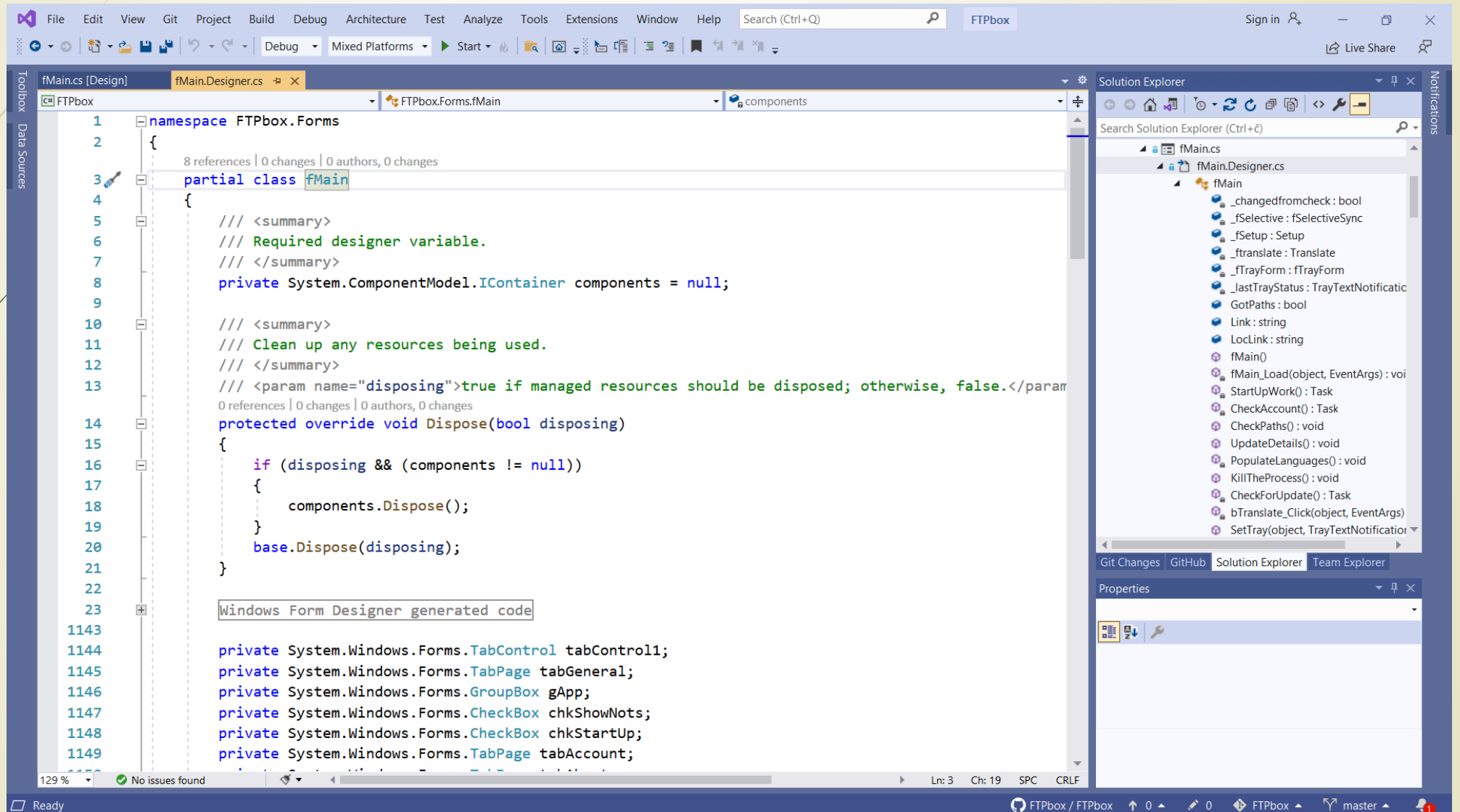
Primer: dizajn prozor za FTPbox Options u VS-u

The screenshot displays the Visual Studio IDE with the 'FTPbox Options' dialog box in design mode. The dialog box has a title bar and four tabs: 'General', 'Account', 'Filters', and 'Bandwidth'. The 'General' tab is active, showing the following sections:

- Links:** A group box containing the text 'When tray notification or recent file is clicked:' and three radio buttons: 'Open link in default browser' (selected), 'copy link to clipboard', and 'open the local file'.
- Application:** A group box containing four checkboxes: 'Start on system start up' (unchecked), 'Show notifications' (checked), 'Enable logging' (unchecked), and 'Add to context menu' (unchecked). A 'View Log' button is located to the right of the 'Enable logging' checkbox.
- Language:** A group box containing a dropdown menu and a 'Translate' button.

The background shows the Visual Studio interface with the Solution Explorer on the right displaying the project structure for 'fMain.Designer.cs'. The Properties window at the bottom right shows the selected control is 'fMain System.Windows.Forms.Form' with properties like 'FormBorderStyle' set to 'FixedSingle' and 'Text' set to 'FTPbox Options'.

Primer: deo izvornog koda FTPbox-a



```
1 namespace FTPbox.Forms
2 {
3     partial class fMain
4     {
5         /// <summary>
6         /// Required designer variable.
7         /// </summary>
8         private System.ComponentModel.IContainer components = null;
9
10        /// <summary>
11        /// Clean up any resources being used.
12        /// </summary>
13        /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>
14        protected override void Dispose(bool disposing)
15        {
16            if (disposing && (components != null))
17            {
18                components.Dispose();
19            }
20            base.Dispose(disposing);
21        }
22
23        Windows Form Designer generated code
24
25        private System.Windows.Forms.TabControl tabControl1;
26        private System.Windows.Forms.TabPage tabGeneral;
27        private System.Windows.Forms.GroupBox gApp;
28        private System.Windows.Forms.CheckBox chkShowNots;
29        private System.Windows.Forms.CheckBox chkStartUp;
30        private System.Windows.Forms.TabPage tabAccount;
```

Izgradnja (kompajliranje) aplikacije FTPbox

The screenshot displays the Visual Studio IDE with the Build menu open. The menu items are:

- Build Solution (Ctrl+Shift+B)
- Rebuild Solution
- Clean Solution
- Run Code Analysis on Solution (Alt+F11)
- Build FTPbox (Ctrl+B)
- Rebuild FTPbox
- Clean FTPbox
- Publish FTPbox
- Run Code Analysis on FTPbox
- Batch Build...
- Configuration Manager...

The code in the background is as follows:

```
1 namespace fMain
2 {
3     partial class fMain
4     {
5         //
6         //
7         //
8         private System.ComponentModel.IContainer components = null;
9
10        //
11        // <summary>
12        // Clean up any resources being used.
13        // </summary>
14        // <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>
15        // 0 references | 0 changes | 0 authors, 0 changes
16        protected override void Dispose(bool disposing)
17        {
18            if (disposing && (components != null))
19            {
20                components.Dispose();
21            }
22            base.Dispose(disposing);
23        }
24
25        // Windows Form Designer generated code
26
27        private System.Windows.Forms.TabControl tabControl1;
28        private System.Windows.Forms.TabPage tabGeneral;
29        private System.Windows.Forms.GroupBox gApp;
30        private System.Windows.Forms.CheckBox chkShowNots;
31        private System.Windows.Forms.CheckBox chkStartUp;
32        private System.Windows.Forms.TabPage tabAccount;
```

Izgrađena FTPbox aplikacija

The screenshot displays the Visual Studio IDE with the following components:

- Code Editor:** Shows the `fMain.cs` file with the following code:

```
1 namespace FTPbox.Forms
2 {
3     partial class fMain
4     {
5         /// <summary>
6         /// Required designer variable.
7         /// </summary>
8         private System.ComponentModel.IContainer components = null;
9
10        /// <summary>
11        /// Clean up any resources being used.
12        /// </summary>
13        /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>
14        protected override void Dispose(bool disposing)
15        {
16            if (disposing && (components != null))
17            {
18                components.Dispose();
19            }
20            base.Dispose(disposing);
21        }
22
23        Windows Form Designer generated code
24
25        private System.Windows.Forms.TabControl tabControl1;
26        private System.Windows.Forms.TabPage tabGeneral;
27        private System.Windows.Forms.GroupBox gApp;
28        private System.Windows.Forms.CheckBox chkShowNots;
29        private System.Windows.Forms.CheckBox chkStartUp;
30        private System.Windows.Forms.TabPage tabAccount;
```
- Toolbox:** Located on the left side of the IDE.
- Git Changes - FTPbox:** A panel on the right side showing the current branch as `master` and indicating that there are no unstaged changes in the working directory.
- Properties:** A panel at the bottom right, currently empty.
- Status Bar:** At the bottom, it shows "Rebuild All succeeded", "No issues found", and the current file location "Ln: 3 Ch: 19 SPC CRLF".

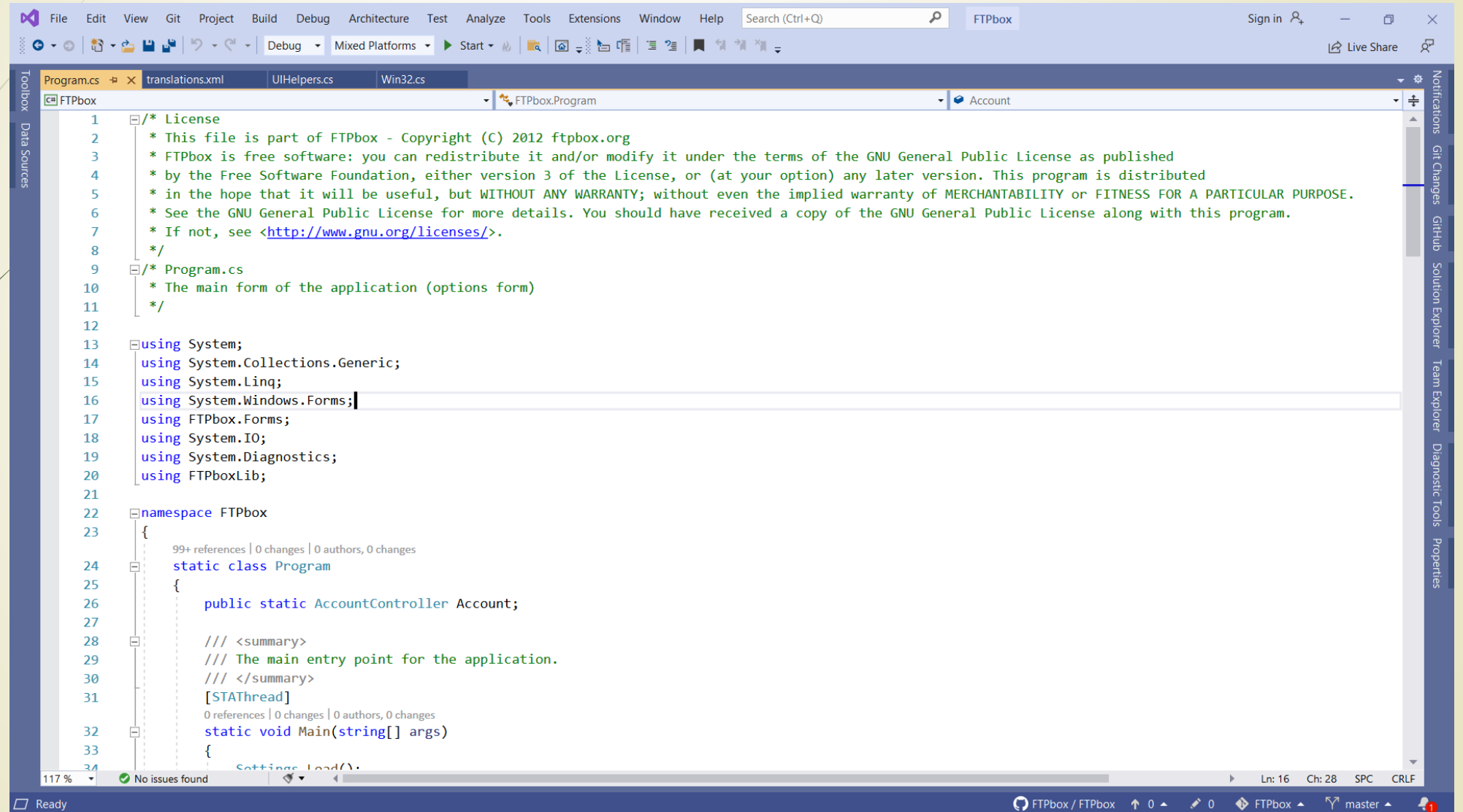
Početni ekran aplikacije FTPbox u VS-u

The screenshot shows the Visual Studio IDE with the following components:

- Code Editor:** Displays the code for the `fMain` class in the `FTPbox.Forms` namespace. The code includes a `Dispose` method that disposes of components and the base class.
- Setup Dialog:** A modal dialog box titled "Setup" with a "Language" section. It prompts the user to "Select your language:" and has a dropdown menu showing "English (en)". Buttons for "Previous", "Next", and "Finish" are visible at the bottom.
- Diagnostic Tools:** A window on the right showing performance metrics for a 40-second session, including Events, Process Memory (MB), and CPU usage.
- Call Stack:** A window at the bottom right showing the current call stack.
- Locals:** A window at the bottom left showing local variables.

```
1 namespace FTPbox.Forms
2 {
3     partial class fMain
4     {
5         /// <summary>
6         /// Required designer variable.
7         /// </summary>
8         private System.ComponentModel.IContainer components = null;
9
10        /// <summary>
11        /// Clean up any resources being used.
12        /// </summary>
13        /// <param name="disposing">true if managed resources should be disposed; otherwise, false;
14        /// </param>
15        protected override void Dispose(bool disposing)
16        {
17            if (disposing && (components != null))
18            {
19                components.Dispose();
20            }
21            base.Dispose(disposing);
22        }
23    }
24 }
```


Početak metoda Main() u FTPbox-u



```
1  /* License
2     * This file is part of FTPbox - Copyright (C) 2012 ftpbox.org
3     * FTPbox is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published
4     * by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. This program is distributed
5     * in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
6     * See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program.
7     * If not, see <http://www.gnu.org/licenses/>.
8     */
9  /* Program.cs
10     * The main form of the application (options form)
11     */
12
13  using System;
14  using System.Collections.Generic;
15  using System.Linq;
16  using System.Windows.Forms;
17  using FTPbox.Forms;
18  using System.IO;
19  using System.Diagnostics;
20  using FTPboxLib;
21
22  namespace FTPbox
23  {
24     99+ references | 0 changes | 0 authors, 0 changes
25     static class Program
26     {
27         public static AccountController Account;
28
29         /// <summary>
30         /// The main entry point for the application.
31         /// </summary>
32         [STAThread]
33         0 references | 0 changes | 0 authors, 0 changes
34         static void Main(string[] args)
35         {
36             Settings.Load();
37         }
38     }
39 }
```

Startovanje aplikacije FTPbox u VS-u

The screenshot displays the Visual Studio IDE with the FTPbox application running in debug mode. A 'Setup' dialog box is open in the center, prompting the user to select a language, with 'English (en)' chosen. On the right, the 'Diagnostic Tools' window is active, showing a 14-second diagnostics session with graphs for Process Memory (MB) and CPU usage, and a list of events including exceptions and IntelliTrace events. The bottom of the IDE shows the 'Locals' and 'Call Stack' windows, which are currently empty. The status bar at the bottom indicates the application is ready and running on the master branch.

Visual Studio Interface showing the FTPbox application running in debug mode. The main window displays the 'Setup' dialog box, which is prompting the user to select a language (English (en) is selected). The 'Diagnostic Tools' window is open on the right, showing a diagnostics session of 14 seconds. The 'Events' section shows 12 events, including 2 exceptions and 10 IntelliTrace events. The 'Memory Usage' and 'CPU Usage' sections are also visible. The 'Locals' and 'Call Stack' windows are open at the bottom, showing empty lists. The status bar at the bottom indicates the application is ready and running on the master branch.

Komponente bildovane aplikacije FTPbox

