

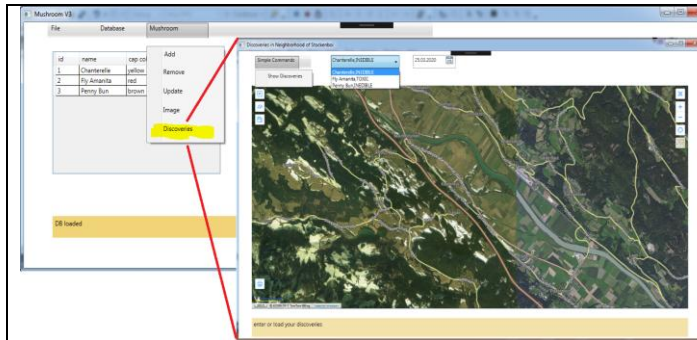
Theme

To save life of mushroom – hunters an appropriate application is needed.

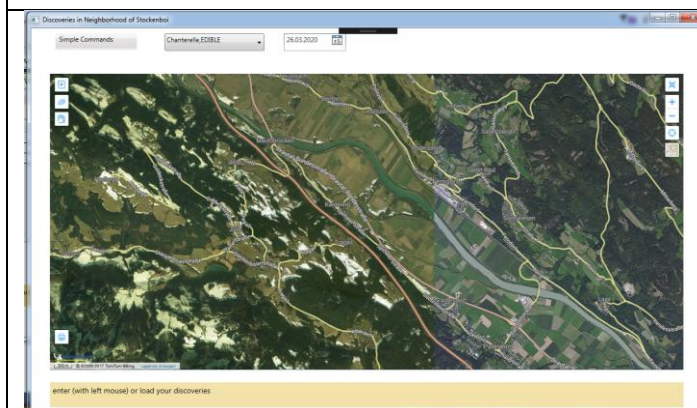
Features

New WPF-Window, Datepicker, Mouse-Position

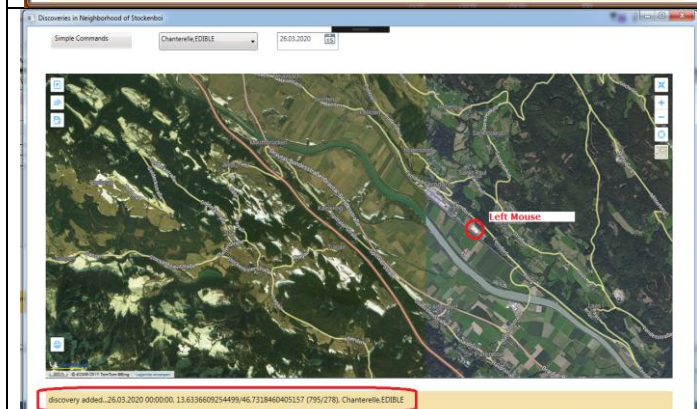
User's View



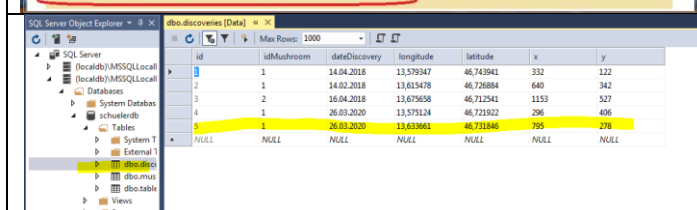
- select menu “discoveries”
- opens new window with
 - map of mushroom – region
 - menu with some commands
 - combo box with all mushrooms in database
 - datepicker



- this is the begin of the begin



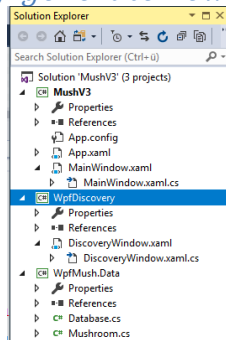
- click with left mouse
- adds a new discovery with
- selected data (mushroom, date, position)
- into database ...



- ... don't forget COMMIT in main-window

Developer's Hint

- copy your C# - project-folder
- generate new project-structure in your solution-explorer



c) generate new WPF – Form

- New Item WPF - User Control → XAML and Controller created
- XAML and Controlfile: change Tag <User Control> → <Window>

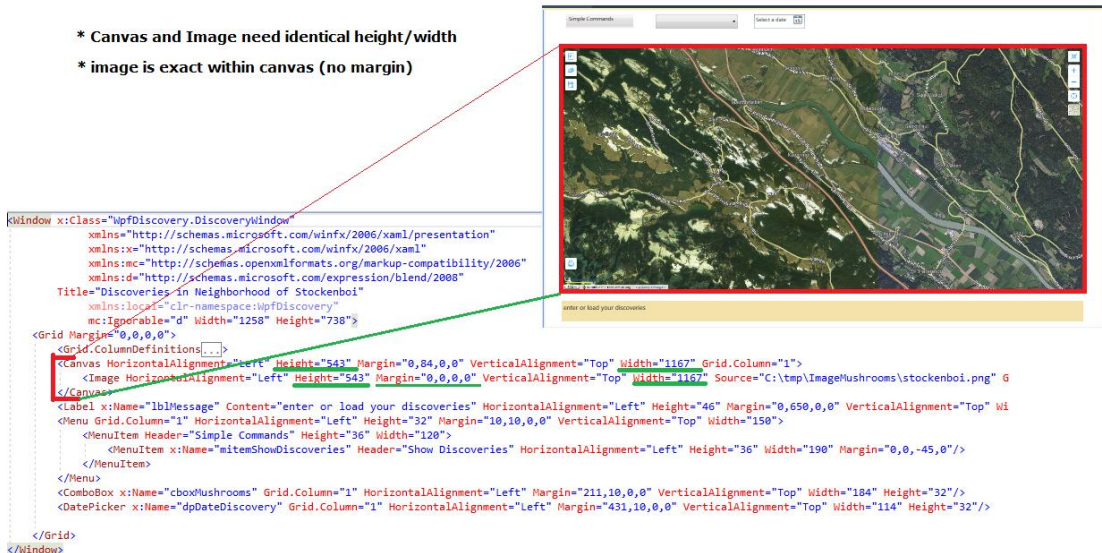


d) open new Form

```
if(e.Source == mitemDiscoveryM)
{
    DiscoveryWindow dw = new DiscoveryWindow();
    dw.Show();
}
```

e) insert image (so that it can be used in program later on)

- Canvas and Image need identical height/width
- image is exact within canvas (no margin)



f) fill combobox with mushrooms

see pdf concerning „Singleton“

g) catch event mouse-click on image-object in XAML

```
private void OnMouseClicked(object sender, MouseButtonEventArgs e)
{
    try
    {
        Mushroom mush = (Mushroom)cboxMushrooms.SelectedItem;
        if (mush == null)
        {
            throw new Exception("no mushroom selected");
        }
        Discovery disc = new Discovery(dpDateDiscovery.SelectedDate, new Position((int)e.GetPosition(imgMap).X, (int)e.GetPosition(imgMap).Y), mush);
        db.AddDiscovery(disc);
        lblMessage.Content = "discovery added..." + disc;
    }
    catch (Exception ex)
    {
        lblMessage.Content = "error: " + ex.Message;
    }
}
```

h) conversion image-pixel-pos → longitude/latitude

