

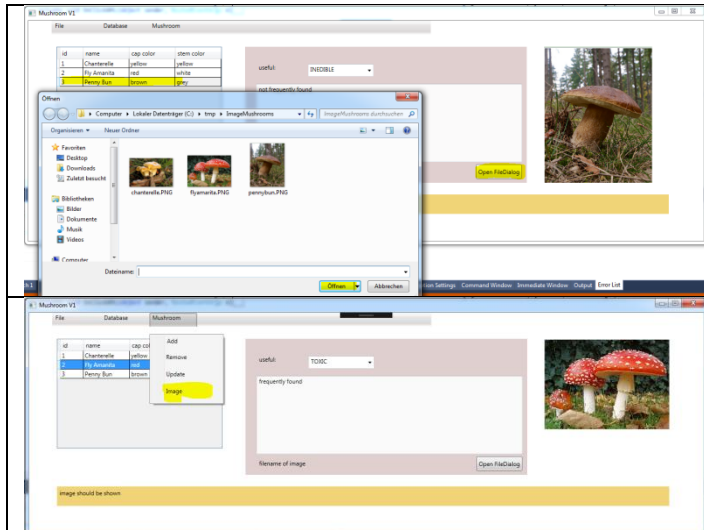
Theme

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

Features

Image stored in database

User's View



- open file dialog
- select image
- ➔ image is stored in database
- and displayed

display image

Developer's Hint

in class Database:

```
private static readonly string UPDATE_MUSHROOM_PICTURE = "UPDATE mushrooms SET image = @image WHERE id = @id ";
private static readonly string SELECT_MUSHROOM_PICTURE = "SELECT image FROM mushrooms WHERE id = @id ";
/**
 * BmpImage can be displayed on screen
 */
1 reference
public BitmapImage GetMushroomImage(Mushroom m)
{
    BitmapImage bitmap = new BitmapImage();
    SqlCommand cmd = new SqlCommand(SELECT_MUSHROOM_PICTURE, conn, trx);
    cmd.Parameters.Add("id", SqlDbType.Int, 4).Value = m.Id;
    SqlDataReader reader = cmd.ExecuteReader();

    if (reader.Read())
    {
        bitmap.BeginInit();
        bitmap.StreamSource = reader.GetStream(0);
        bitmap.EndInit();
    }
    else
    {
        throw new Exception("mushroom with id " + m.Id + " not found");
    }
    reader.Close();

    return bitmap;
}

public BitmapImage WriteImageToDb(Mushroom mushroom, String pathImage)
{
    //create bitmap from path (necessary for displaying)
    BitmapImage bitmap = new BitmapImage();
    bitmap.BeginInit();
    bitmap.UriSource = new Uri(pathImage, UriKind.Absolute);
    bitmap.EndInit();
    //read file into bytearray (necessary for storing in db)
    FileStream fs = new FileStream(pathImage, FileMode.Open, FileAccess.Read);
    byte[] arrBlob = new byte[fs.Length];
    fs.Read(arrBlob, 0, System.Convert.ToInt32(fs.Length));
    fs.Close();

    UpdateMushroomPicture(mushroom, arrBlob);

    //return bitmap so it can be displayed by the caller
    return bitmap;
}
```

```
private void UpdateMushroomPicture(Mushroom m, byte[] arrImage)
{
    SqlCommand cmd = new SqlCommand(UPDATE_MUSHROOM_PICTURE, conn, trx);
    cmd.Parameters.Add("image", SqlDbType.VarBinary, MAX_IMAGESIZE).Value = arrImage;
    cmd.Parameters.Add("id", SqlDbType.Int, 4).Value = m.Id;

    if (cmd.ExecuteNonQuery() != 1)
    {
        throw new Exception("mushroom " + m.Id + "/" + m.Name + " no update image done ==> rollback recommended");
    }
}
```