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1 <Window
2     xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
3     xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
4     xmlns:local="clr-namespace:kinectScan"
5     xmlns:sys="clr-namespace:System;assembly=mscorlib"
6     xmlns:d="http://schemas.microsoft.com/expression/blend/2008" xmlns:mc="http://schemas.
openxmlformats.org/markup-compatibility/2006" mc:Ignorable="d" x:Class="kinectScan.MainWindow"
7     xmlns:tk="clr-namespace:Microsoft.Kinect.Toolkit;assembly=Microsoft.Kinect.Toolkit"
8     Title="kinectScan" Height="870" Width="1028" Loaded="WindowLoaded" Closing="WindowClosing" Top=
"0" Left="0" Icon="Images/Kinect.ico">
9
10 <Window.Resources>
11
12     <ResourceDictionary Source="/KinectResources.xaml" />
13
14 </Window.Resources>
15
16 <Grid x:Name="LayoutGrid" Margin="0, 0, 0, 0">
17
18     <Grid.RowDefinitions>
19         <RowDefinition />
20     </Grid.RowDefinitions>
21
22     <Grid.ColumnDefinitions>
23         <ColumnDefinition Width="700" />
24         <ColumnDefinition Width="30" />
25     </Grid.ColumnDefinitions>
26
27     <Rectangle Fill="{StaticResource SecondaryBrandBrush}" />
28
29     <Grid x:Name="CameraZone" Margin="0,0,0,0" TextBlock.FontFamily="{StaticResource KinectFont}"
Grid.Column="0">
30
31         <Grid.RowDefinitions>
32             <RowDefinition Height="270" />
33             <RowDefinition Height="30"/>
34             <RowDefinition Height="30"/>
35             <RowDefinition Height="510" />
36         </Grid.RowDefinitions>
37
38         <Grid.ColumnDefinitions>
39             <ColumnDefinition Width="700" />
40         </Grid.ColumnDefinitions>
41
42         <!-- Depth Camera -->
43         <Rectangle Fill="{StaticResource MediumNeutralBrush}" Grid.Row="0" Height="240" Width="320"
Margin="30,30,350,0" />
44         <Image Name="KinectDepthView" Grid.Row="0" Height="240" Width="320" Margin="30,30,350, 0"/>
45
46         <!-- Bilateral Camera-->
47         <Rectangle Fill="{StaticResource MediumNeutralBrush}" Grid.Row="0" Height="240" Width="320"
Margin="350,30,30,0" />
48         <Image Name="KinectRGBView" Grid.Row="0" Height="240" Width="320" Margin="350,30,30,0"/>
49
50         <!-- Reconstruction Model -->
51         <Grid x:Name="Reconstruction_Grid" Grid.Row="3">
52             <Grid.ColumnDefinitions>
53                 <ColumnDefinition Width="30"/>
54                 <ColumnDefinition />
55                 <ColumnDefinition Width="30"/>
56             </Grid.ColumnDefinitions>
57
58             <Grid.RowDefinitions>
59                 <RowDefinition Height="480"/>
60                 <RowDefinition />
61             </Grid.RowDefinitions>
62
63

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64         <Rectangle Fill="{StaticResource MediumNeutralBrush}" Grid.Row="3" Height="480" Width=
"640" Margin="30,0,30,30" />
65         <Canvas Name="KinectNormalView" Grid.Column="1" Height="480" Width="640" Margin="0,0,0,
30" Background="{StaticResource MediumNeutralBrush}" />
66
67         <!-- Bounding Box-->
68         <!-- <Border BorderBrush="Red" BorderThickness="1" Grid.Column="1" /> -->
69
70     </Grid>
71
72     <!-- Titles -->
73     <Label x:Name="IR_Title" Content="IR DEPTH CAMERA" Grid.Row="1" Foreground="White"
HorizontalAlignment="Left" Margin="30,0,0,0" VerticalAlignment="Top"/>
74     <Label x:Name="RGB_Title" Content="RGB CAMERA" Grid.Row="1" Foreground="White"
HorizontalAlignment="Right" Margin="0,0,30,0" VerticalAlignment="Top"/>
75     <Label x:Name="Model_Title" Content="RECONSTRUCTED MODEL" Grid.Row="2" Foreground="White"
HorizontalAlignment="Center" Margin="0,0,0,0" VerticalAlignment="Bottom"/>
76     <Label x:Name="statusBarText" Grid.Row="1" Foreground="White" HorizontalAlignment="Center"
Margin="0,0,0,0" VerticalAlignment="Center" Grid.RowSpan="2"/>
77     <Label x:Name="KinectStatusText" Content="Kinect Status: Loading..." Grid.Row="3"
Foreground="White" HorizontalAlignment="Left" Margin="10,0,0,5" VerticalAlignment="Bottom"/>
78
79     </Grid>
80     <!--CameraZone-->
81
82     <Grid x:Name="MenuArea" Background="White" Grid.Column="2">
83
84         <Grid.RowDefinitions>
85             <RowDefinition Height="90" />
86             <RowDefinition Height="240" />
87             <RowDefinition Height="50" />
88             <RowDefinition />
89             <RowDefinition Height="30" />
90             <RowDefinition Height="100" />
91         </Grid.RowDefinitions>
92
93         <Grid.ColumnDefinitions>
94             <ColumnDefinition Width="290" />
95         </Grid.ColumnDefinitions>
96
97         <Button x:Name ="Begin_Scan" Content="RECORD FRAME" Margin="0,30,0,0" Style="
{StaticResource KinectButton}" Grid.Row="0" Click="Begin_Scan_Click"/>
98         <Button x:Name ="End_Scan" Content="CLEAR CANVAS" Margin="137,30,0,0" Style="
{StaticResource KinectButton}" Grid.Row="0" Click="End_Scan_Click" />
99
100     <!--BeginSlider Area-->
101     <Grid x:Name="SliderArea" Background="White" Grid.Row="1" Margin="0,0,30,30" Grid.RowSpan=
"2">
102         <Grid.RowDefinitions>
103             <RowDefinition Height="40" />
104             <RowDefinition Height="40" />
105             <RowDefinition Height="40" />
106             <RowDefinition Height="40" />
107             <RowDefinition Height="40" />
108             <RowDefinition Height="40" />
109             <RowDefinition Height="40" />
110         </Grid.RowDefinitions>
111
112         <Grid.ColumnDefinitions>
113             <ColumnDefinition Width="220" />
114             <ColumnDefinition Width="40" />
115         </Grid.ColumnDefinitions>
116
117         <Label x:Name="Near_Filter_Title" Content="MIN FILTER DEPTH" Foreground="
{StaticResource SecondaryBrandBrush}" HorizontalAlignment="Left" Margin="10,0,0,0"
VerticalAlignment="Top" Grid.Row="0" Grid.Column="0" />
118         <Slider x:Name="Near_Filter_Slider" HorizontalAlignment="Left" Margin="10,20,0,0"
VerticalAlignment="Top" Width="200" Style="{StaticResource SliderStyle}" Grid.Row="0" Grid.Column=

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"0" Minimum="0" Maximum="654" Value="0"/>
119     <Label x:Name="Near_Filter_Value" Content="{Binding ElementName=Near_Filter_Slider,Path=
=Value}" ContentStringFormat="{0:N0}" Grid.Row="0" Grid.Column="1" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" VerticalAlignment="Center" />
120
121     <Label x:Name="Far_Filter_Title" Content="MAX FILTER DEPTH" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" Margin="10,0,0,0" VerticalAlignment="Top" Grid.
Row="1" Grid.Column="0" />
122     <Slider x:Name="Far_Filter_Slider" HorizontalAlignment="Left" Margin="10,20,0,0"
VerticalAlignment="Top" Width="200" Style="{StaticResource SliderStyle}" Grid.Row="1" Grid.Column=
"0" Minimum="{Binding ElementName=Near_Filter_Slider,Path=Value}" Maximum="654" Value="300"/>
123     <Label x:Name="Far_Filter_Value" Content="{Binding ElementName=Far_Filter_Slider,Path=
Value}" ContentStringFormat="{0:N0}" Grid.Row="1" Grid.Column="1" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" VerticalAlignment="Center" />
124
125     <Label x:Name="Left_Title" Content="LEFT BOUND" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" Margin="10,0,0,0" VerticalAlignment="Top" Grid.Row
="2" Grid.Column="0" />
126     <Slider x:Name="Left_Slider" HorizontalAlignment="Left" Margin="10,20,0,0"
VerticalAlignment="Top" Width="200" Style="{StaticResource SliderStyle}" Grid.Row="2" Grid.Column=
"0" Minimum="0" Maximum="320" Value="0"/>
127     <Label x:Name="Left_Value" Content="{Binding ElementName=Left_Slider,Path=Value}"
ContentStringFormat="{0:N0}" Grid.Row="2" Grid.Column="1" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" VerticalAlignment="Center" />
128
129     <Label x:Name="Right_Title" Content="RIGHT BOUND" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" Margin="10,0,0,0" VerticalAlignment="Top" Grid.Row
="3" Grid.Column="0" />
130     <Slider x:Name="Right_Slider" HorizontalAlignment="Left" Margin="10,20,0,0"
VerticalAlignment="Top" Width="200" Style="{StaticResource SliderStyle}" Grid.Row="3" Grid.Column=
"0" Minimum="0" Maximum="320" Value="320"/>
131     <Label x:Name="Right_Value" Content="{Binding ElementName=Right_Slider,Path=Value}"
ContentStringFormat="{0:N0}" Grid.Row="3" Grid.Column="1" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" VerticalAlignment="Center" />
132
133     <Label x:Name="Top_Title" Content="TOP BOUND" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" Margin="10,0,0,0" VerticalAlignment="Top" Grid.Row
="4" Grid.Column="0" />
134     <Slider x:Name="Top_Slider" HorizontalAlignment="Left" Margin="10,20,0,0"
VerticalAlignment="Top" Width="200" Style="{StaticResource SliderStyle}" Grid.Row="4" Grid.Column=
"0" Minimum="0" Maximum="240" Value="0"/>
135     <Label x:Name="Top_Value" Content="{Binding ElementName=Top_Slider,Path=Value}"
ContentStringFormat="{0:N0}" Grid.Row="4" Grid.Column="1" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" VerticalAlignment="Center" />
136
137     <Label x:Name="Bot_Title" Content="BOTTOM BOUND" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" Margin="10,0,0,0" VerticalAlignment="Top" Grid.Row
="5" Grid.Column="0" />
138     <Slider x:Name="Bot_Slider" HorizontalAlignment="Left" Margin="10,20,0,0"
VerticalAlignment="Top" Width="200" Style="{StaticResource SliderStyle}" Grid.Row="5" Grid.Column=
"0" Minimum="0" Maximum="240" Value="240"/>
139     <Label x:Name="Bot_Value" Content="{Binding ElementName=Bot_Slider,Path=Value}"
ContentStringFormat="{0:N0}" Grid.Row="5" Grid.Column="1" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" VerticalAlignment="Center" />
140     </Grid>
141     <!--EndSliderArea-->
142
143     <!--Begin Radio-->
144     <Label x:Name="Filter_Type_Title" Content="FILTER TYPE" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" Margin="10,0,0,0" VerticalAlignment="Top" Grid.Row
="2" />
145     <RadioButton Name="Filter_Off" Content="Off" HorizontalAlignment="Left" Margin="10,30,0,0"
Grid.Row="2" VerticalAlignment="Top" IsChecked="True" />
146     <RadioButton Name="Filter_Blur" Content="Blur" HorizontalAlignment="Left" Margin="60,30,0,0"
" Grid.Row="2" VerticalAlignment="Top" />
147     <!--End Radio-->
148
149     <!--ModelNameArea-->

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150         <Grid x:Name="ModelNameArea" Grid.Row="4">
151             <Grid.RowDefinitions>
152                 <RowDefinition />
153             </Grid.RowDefinitions>
154
155             <Grid.ColumnDefinitions>
156                 <ColumnDefinition Width="100" />
157                 <ColumnDefinition />
158             </Grid.ColumnDefinitions>
159             <Label x:Name="Name_Label" Content="MODEL NAME:" Foreground="{StaticResource
SecondaryBrandBrush}" HorizontalAlignment="Left" VerticalAlignment="Top" Grid.Column="0" Margin="7,
0,0,0" />
160             <TextBox x:Name="Model_Name" Text="modelName" HorizontalAlignment="Left"
VerticalAlignment="Top" Width="140" Margin="17,0,0,0" Grid.Column="1" />
161         </Grid>
162         <!--EndModelNameArea-->
163
164         <Button x:Name ="Export_Model" VerticalAlignment="Bottom" Margin="50,0,0,23" Style="
{StaticResource KinectButton}" Grid.Row="5" Click="Export_Model_Click">
165             <StackPanel Orientation="Horizontal">
166                 <Label x:Name="Export_Label" Content="EXPORT MODEL" Foreground="White" FontFamily="
{StaticResource KinectFont}" FontSize="14" Padding="0,0,10,0"/>
167                 <Image x:Name="Download" Source="Images/download.png" Width="23" Height="23"
HorizontalAlignment="Left" VerticalAlignment="Top" />
168             </StackPanel>
169         </Button>
170         <!-- <TextBox Name="test_text" HorizontalAlignment="Left" Height="109" Margin="42,124,0,0"
Grid.Row="3" TextWrapping="Wrap" Text="TextBox" VerticalAlignment="Top" Width="209"/> -->
171     </Grid>
172     <!--MenuArea-->
173     <tk:KinectSensorChooserUI Name="sensorChooserUI" HorizontalAlignment="Center" Margin="330,0,330
,5"/>
174 </Grid>
175 <!--LayoutGrid-->
176
177 </Window>

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