

TURISME ACTIU



David Hidalgo Salinas

M04-UF2

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- Disseny del teu document XML

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        <datahora>2024-03-12T11:30:00Z</datahora>
    </inici>
    <final>
        <datahora>2024-03-12T11:30:00Z</datahora>
    </final>
    <nom>Ruta Sant Miquel</nom>
    <autor>David Hidalgo Salinas</autor>
    <trackpoints>
        <trackpoint>
            <coord>
                <lat>12.34</lat>
                <long>1.234</long>
                <alt>123.4</alt>
            </coord>
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        </trackpoint>
        <trackpoint>
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                <long>1.234</long>
                <alt>123.4</alt>
            </coord>
            <datahora>2024-03-12T11:30:00Z</datahora>
        </trackpoint>
        <trackpoint>
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                <lat>12.34</lat>
                <long>1.234</long>
                <alt>123.4</alt>
            </coord>
            <datahora>2024-03-12T11:30:00Z</datahora>
        </trackpoint>
        <trackpoint>
            <coord>
                <lat>12.34</lat>
                <long>1.234</long>
                <alt>123.4</alt>
            </coord>
            <datahora>2024-03-12T11:30:00Z</datahora>
        </trackpoint>
    </trackpoints>

```

```
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</trackpoint>
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<alt>123.4</alt>
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</trackpoint>
<trackpoint>
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```
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    <lat>12.34</lat>
    <long>1.234</long>
    <alt>123.4</alt>
  </coord>
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</trackpoint>
</trackpoints>
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    <coord>
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      <long>1.234</long>
      <alt>123.4</alt>
    </coord>
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    <img>

    </img>
    <observacions>

    </observacions>
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  <pdi>
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    <coord>
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      <long>1.234</long>
      <alt>123.4</alt>
    </coord>
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    <img>

    </img>
    <observacions>

    </observacions>
  </pdi>
  <pdi>
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    <coord>
```

```

<lat>12.34</lat>
<long>1.234</long>
<alt>123.4</alt>
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<img>

</img>
<observaciones>

</observaciones>
</pdi>
</puntsinteres>
</ruta>

```

- El codi de la App (només de la part que s'ha modificat)
 - MainPage.xaml.cs

```

string xml = string.Empty;
xml = "<ruta>\r\n";
//Creem els elements de la ruta
xml = xml + "<nom>" + ruta.Nom + "</nom>\r\n" +
      "<trackpoints>\r\n"; /* AQUI HAS DE MODIFICAR EL CODI
*/
foreach (PuntRuta puntRuta in puntsRuta)
{
    /* AQUI HAS DE MODIFICAR EL CODI */
    /*puntRuta.Latitud.ToString(nfi)
    puntRuta.Longitud.ToString(nfi)
    puntRuta.Elevacio?.ToString(nfi)
    puntRuta.DataHora.ToString("yyyy-MM-ddTHH:mm:ssZ")*/
    xml = xml + "<trackpoint>\r\n" +
          "<cord>\r\n" +
          "<lat>" + puntRuta.Latitud.ToString(nfi) + "</lat>\r\n" +
+
          "<long>" + puntRuta.Longitud.ToString(nfi) +
"</long>\r\n" +
          "<alt>" + puntRuta.Elevacio?.ToString(nfi) +
"</alt>\r\n" +
          "<cord>\r\n" +
          "<datahora>" +
puntRuta.DataHora.ToString("yyyy-MM-ddTHH:mm:ssZ") + "</datahora>\r\n"
+

```

```

        "</trackpoint>\r\n";
    }

    xml = xml + "</trackpoints>\r\n"; /**** AQUI HAS DE
MODIFICAR EL CODI ***/

        //Creem els elements dels punts d'interès
        xml = xml + "<puntsinteres>\r\n"; /**** AQUI HAS DE
MODIFICAR EL CODI ***/
        foreach (PuntInteres puntInteres in puntsInteres)
        {
            /**** AQUI HAS DE MODIFICAR EL CODI ***/
            /*
            puntInteres.Nom
            puntInteres.Latitud.ToString(nfi)
            puntInteres.Longitud.ToString(nfi)
            puntInteres.Elevacio?.ToString(nfi)
            puntInteres.DataHora.ToString("yyyy-MM-ddTHH:mm:ssZ")*/
            xml = xml + "<pdi>\r\n" +
            "<nom>" + puntInteres.Nom + "</nom>\r\n" +
            "<cord>\r\n" +
            "    "<lat>" + puntInteres.Latitud.ToString(nfi) +
            "</lat>\r\n" +
            "    "<long>" + puntInteres.Longitud.ToString(nfi) +
            "</long>\r\n" +
            "    "<alt>" + puntInteres.Elevacio?.ToString(nfi) +
            "</alt>\r\n" +
            "    "<cord>\r\n" +
            "        "<datahora>" +
            puntInteres.DataHora.ToString("yyyy-MM-ddTHH:mm:ssZ") +
            "</datahora>\r\n" +
            "    "</pdi>\r\n";
        }
        xml = xml + "</puntsinteres>\r\n"; /**** AQUI HAS DE
MODIFICAR EL CODI ***/

        xml = xml + "</ruta>\r\n";
    }
}

```

- o MainPage.xaml

```

<Label
    x:Name="IDNom"
    Text="David Hidalgo Salinas"
    SemanticProperties.HeadingLevel="Level1"
    FontSize="16"

```

```
    HorizontalOptions="Center"  
    />
```

- Document XML generat per l'App de la ruta

```
<ruta>  
<nom>Ruta</nom>  
<trackpoints>  
<trackpoint>  
<cord>  
<lat>41.9645209</lat>  
<long>2.828436</long>  
<alt>156.1999969482422</alt>  
</cord>  
<datahora>2024-04-02T12:04:06Z</datahora>  
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<alt>141.5142822265625</alt>  
</cord>  
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</trackpoint>  
<trackpoint>  
<cord>  
<lat>41.9642892</lat>
```

```
<long>2.8283294</long>
<alt>149</alt>
</cord>
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```

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```
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```

```
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</pdi>
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</cord>
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</pdi>
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<long>2.8286829</long>
<alt>159.710693359375</alt>
</cord>
```

```
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</pdi>
<pdi>
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<cord>
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</cord>
<datahora>2024-04-02T12:13:04Z</datahora>
</pdi>
</puntsinteres>
</ruta>
```

- El document XSL que transforma en KML

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:kml="http://www.opengis.net/kml/2.0">
<xsl:template match="/">
<kml:kml xmlns:kml="http://www.opengis.net/kml/2.0">
<kml:Document>
<kml:name>Trackpoints i Punts d'Interès</kml:name>
<Style id="redline">
<LineStyle>
<color>ff0000ff</color>
<width>6</width>
</LineStyle>
<PolyStyle>
<color>ffff0000ff</color>
</PolyStyle>
</Style>
<xsl:apply-templates select="ruta"/>
</kml:Document>
```

```

        </kml:kml>
    </xsl:template>

<xsl:template match="ruta">
    <kml:Placemark>
        <name>clampedtoGround</name>
        <styleUrl>#redline</styleUrl>
        <LineString>
            <extrude>1</extrude>
            <tessellate>1</tessellate>
            <coordinates>
                <xsl:for-each select="trackpoints/trackpoint">
                    <xsl:value-of
select="cord/long"/>,<xsl:value-of select="cord/lat"/>,<xsl:value-of
select="cord/alt"/><xsl:text> </xsl:text><xsl:text>#10;</xsl:text>
                </xsl:for-each>
            </coordinates>
        </LineString>
    </kml:Placemark>
    <xsl:apply-templates select="puntsinteres/pdi"/>
</xsl:template>

<xsl:template match="pdi">
    <kml:Placemark>
        <kml:name><xsl:value-of select="nom"/></kml:name>
        <kml:Point>
            <kml:coordinates>
                <xsl:value-of select="cord/long"/>,<xsl:value-of
select="cord/lat"/>,<xsl:value-of select="cord/alt"/>
            </kml:coordinates>
            <kml:description>Data i Hora: <xsl:value-of
select="datahora"/></kml:description>
        </kml:Point>
    </kml:Placemark>
</xsl:template>
</xsl:stylesheet>

```

- Document transformat en format KML

```

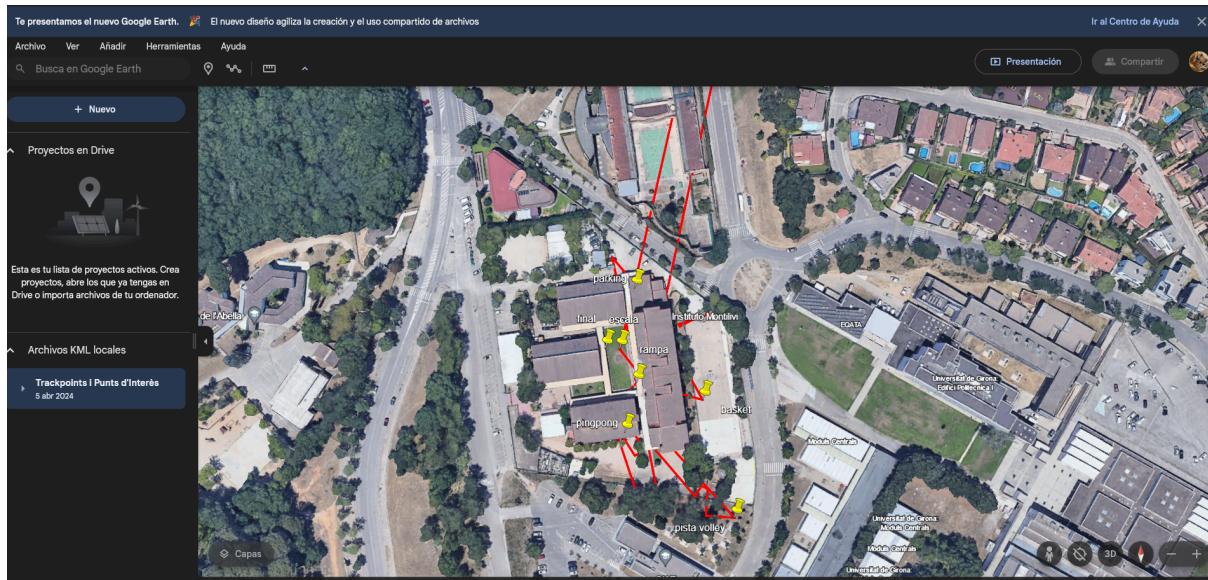
<?xml version="1.0"?><kml:kml
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id="redline"><LineStyle><color>ff0000ff</color><width>6</width></LineStyle><PolyStyle><color>ff0000ff</color></PolyStyle></Style><kml:Placema

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- Captures pantalles de la visualització en Google Earth



- Document XSL que transforma en GPX

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:template match="/">
        <gpx version="1.1" xmlns="http://www.topografix.com/GPX/1/1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"><xsl:text>`</xsl:text>
<metadata><xsl:text>`</xsl:text>
            <name>Trackpoints i Punts
d'Interès</name><xsl:text>`</xsl:text>
        </metadata><xsl:text>`</xsl:text>
        <xsl:apply-templates select="ruta"/>
    </gpx>
</xsl:template>

<xsl:template match="ruta">
    <trk><xsl:text>`</xsl:text>
        <name>Ruta</name><xsl:text>`</xsl:text>
        <trkseg><xsl:text>`</xsl:text>
            <xsl:apply-templates select="trackpoints/trackpoint"/>
        </trkseg><xsl:text>`</xsl:text>
    </trk><xsl:text>`</xsl:text>
    <xsl:apply-templates
select="puntsinteres/pdi"/><xsl:text>`</xsl:text>
</xsl:template>
```

```

<xsl:template match="trackpoint">
    <trkpt lat="{cord/lat}"
lon="{cord/long}"><xsl:text>\n;</xsl:text>
        <ele><xsl:value-of
select="cord/alt"/></ele><xsl:text>\n;</xsl:text>
            <time><xsl:value-of
select="datahora"/></time><xsl:text>\n;</xsl:text>
        </trkpt><xsl:text>\n;</xsl:text>
    </xsl:template>

    <xsl:template match="pdi">
        <wpt lat="{cord/lat}"
lon="{cord/long}"><xsl:text>\n;</xsl:text>
            <name><xsl:value-of
select="nom"/></name><xsl:text>\n;</xsl:text>
            <ele><xsl:value-of
select="cord/alt"/></ele><xsl:text>\n;</xsl:text>
                <time><xsl:value-of
select="datahora"/></time><xsl:text>\n;</xsl:text>
            </wpt>
        </xsl:template>
</xsl:stylesheet>

```

- Document transformat en format GPX

```

<?xml version="1.0"?><gpx version="1.1"
xmlns="http://www.topografix.com/GPX/1/1"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<metadata>
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</metadata>
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<name>Ruta</name>
<trkseg>
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<time>2024-04-02T12:04:06Z</time>
</trkpt>
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<ele>142.52734375</ele>
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</trkpt>
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<ele>142.91754150390625</ele>

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<time>2024-04-02T12:04:25Z</time>
</trkpt>
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<ele>141.5142822265625</ele>
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</trkpt>
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<ele>149</ele>
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</trkpt>
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<ele>148.32183837890625</ele>
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</trkpt>
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<ele>146.1999969482422</ele>
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</trkpt>
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</trkpt>
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</trkpt>
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</trkpt>
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<trkpt lat="41.96390068" lon="2.82831276">
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</trkpt>
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</trkpt>
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</trkpt>
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</trkpt>
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<ele>147.93505859375</ele>
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</trkpt>
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</trkpt>
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</trkpt>
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</trkpt>
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</trkpt>
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<time>2024-04-02T12:09:11Z</time>
</trkpt>
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<ele>146.59999084472656</ele>
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</trkpt>
<trkpt lat="41.96414649" lon="2.8286829">
<ele>159.710693359375</ele>
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</trkpt>
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</trkpt>
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<ele>165.287109375</ele>
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</trkpt>
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<time>2024-04-02T12:11:01Z</time>
</trkpt>
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<ele>145.89999389648438</ele>
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</trkpt>
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<ele>151.7901611328125</ele>
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</trkpt>
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<ele>156.1999969482422</ele>
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<name>final</name>
<ele>145.09999084472656</ele>
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</wpt>
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- Captures pantalles de la visualització en wikiloc

