Laboratory introduction

Geographic Information System (GIS) 2010-2011

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Como and its history

Last year laboratory project was about: “Como and its history”

At this link you can find some of the project done by the student:

http://webgis.como.polimi.it/como_hist/

We suggest to take a look in order to have an idea of the expected result.
# Groups

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<tr>
<th>Group</th>
<th>Topic</th>
<th>Topic Details</th>
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<td>MOSLO project</td>
<td>Grandate-Malnate railway track</td>
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<td>Palazzo Natta</td>
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<td>Building in Via Anzani</td>
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<td>Como campus</td>
<td>Building in Via Valleggio</td>
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Mandatory tasks

WebGIS structure:

The creation of an **introduction page** is mandatory, on that page you have at least to add:

- Information about the project (e.g.: purpose, any elaboration done on data...)

- Additional information about the area considered in the specific work

- A link to the actual WebGIS

- Bibliography about the data used in the project and the other information sources used

- References to the team members.
Mandatory tasks - 2

WebGIS structure:

In the WebGIS you have to use all the maps provided but you can add any kind of layer related to the purpose of the project.

It's also possible to add “hand made” digitized layers (in this case follow the digitization rules).

You are also suggested to make use of all kind of layers seen during the lessons (raster, vector, WMS....).
WebGIS look:

How the WebGIS look is also important, in particular:

- It should be user friendly (people that browse your webGIS have to understand easily how to use it – it implies the choice of link names...)

- Chose a correct color combination and icons set

- Query results have to be understandable, clear and they should follow the purpose of your WebGIS.
Digitization Rules

Adding new layer (vector) after digitization:

- Chose the correct geometry (roads → lines, buildings → polygons...)

- If you digitize polygons **DON'T** create overlap between different polygons.

- You are kindly requested to use **OpenJump** to digitize because:
  
  - it's very easy to create/modify features
  - it allows the creation of buildings with “holes” inside.
Evaluation of the work

The work will be evaluated up on:

- Look of the whole work (usability, appearance, ...)

- Presentation of the area (purpose description, information detail level, ...)

- Fulfillment of the mandatory tasks (DB filled correctly, use of all the provided information sources...)

- Originality (creation of derived/thematic maps, search and addition of new information...)

- Digitization accuracy
1- Digitization of the polygon for each room: follow the digitization rules provided

2- Digitization of a polygon covering the whole floor

(example that will be provided: via anzani building – first floor)

- In the webgis use both the line vector layer and the polygon one.
- Database information will be inserted in the latter.
Como campus – elaboration 2

Webgis:
- Layer corresponding to the assigned floor: lines, polygon layer for the whole floor, polygon layer covering the rooms.
- Orthophoto via wms
- Open street map layer
- Other additional layers

Database:
- Room number
- Room definition/use (library, office...)
- Employees name
Group 2

Palazzo Natta (2 floor)
Group 3

Via Anzani building:

← First floor
Second floor
Basement →
Group 4

Via Anzani building: ground floor

Third floor
Group 5

Via Castelnuovo building:
- ground floor
- first floor
- second floor
Group 6

Via Castelnuovo building:
- third floor
- basement
- fourth floor
Group 7

Via Valleggio building:
- Ground floor
- First floor
- Second floor
Group 8

Via Valleggio building:
- Basement
- Third floor
- Fourth floor
- Fifth floor
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<tr>
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<tr>
<td>1</td>
<td>Amaranto A., Pingitore N., Galfetti L., Bianchi M.</td>
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<tr>
<td>2</td>
<td>Li Yu, Li Chen, Thalapaneni D. V.</td>
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<td>3</td>
<td>Henao Rios Y. D., Castillo M. M. P., Ramirez C. R.</td>
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<td>Bui T. H., Devendran A. A., Espah Boroujeni A.</td>
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<td>Rahman M. M., Amos J. K., Mainardi M.</td>
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