

TASKS – 01.07.2020

The development to do concerns the refinement and modification of the previously developed API.

Here are the tasks:

TASK 1	API CREATE						
API Name	readDataByArea						
Parameters	<ul style="list-style-type: none"> latU latD lonU lonD tipoDati 						
PARAMETERS DESCRIPTION							
latU	latitude of the point at the top left						
lonU	longitude of the point at the top left						
latD	latitude of the point at the bottom right						
lonD	longitude of the point at the bottom right						
tipoDati	<p>These are possible values:</p> <ul style="list-style-type: none"> attività superficieEdificato superficieAreeServizio struttureVarie tutti <p>Here are the specifications regarding the "tipoDati" parameter:</p> <table> <tr> <td>attività</td><td>TODO IN ANOTHER TASK</td></tr> <tr> <td>superficieEdificato</td><td> <p>Tables:</p> <ul style="list-style-type: none"> search the list of tables in table: "ws_datatype_tables" (osm_buildings) <p>Output:</p> <ul style="list-style-type: none"> a GeoTIFF file (multilevel): with the levels grouped according to the data stored in the table "ws_datatype_groups" a JSON file with the structure defined in the file "02_superficieEdificato.json" In the JSON file there are 2 fields for saving totale area: <ul style="list-style-type: none"> "layer_area": with the area of a single layer "totale_area": with the are of all layers </td></tr> <tr> <td>superficieAreeServizio</td><td> <p>Tables:</p> <ul style="list-style-type: none"> search the list of tables in table: "ws_datatype_tables" (osm_landuse) <p>Output to be produced:</p> <ul style="list-style-type: none"> a GeoTIFF file (multilevel): with the levels grouped according to the data stored in the table "ws_datatype_groups" a JSON file with the structure defined in the file "03_superficieAreeServizio.json" In the JSON file there are 2 fields for saving totale area: </td></tr> </table>	attività	TODO IN ANOTHER TASK	superficieEdificato	<p>Tables:</p> <ul style="list-style-type: none"> search the list of tables in table: "ws_datatype_tables" (osm_buildings) <p>Output:</p> <ul style="list-style-type: none"> a GeoTIFF file (multilevel): with the levels grouped according to the data stored in the table "ws_datatype_groups" a JSON file with the structure defined in the file "02_superficieEdificato.json" In the JSON file there are 2 fields for saving totale area: <ul style="list-style-type: none"> "layer_area": with the area of a single layer "totale_area": with the are of all layers 	superficieAreeServizio	<p>Tables:</p> <ul style="list-style-type: none"> search the list of tables in table: "ws_datatype_tables" (osm_landuse) <p>Output to be produced:</p> <ul style="list-style-type: none"> a GeoTIFF file (multilevel): with the levels grouped according to the data stored in the table "ws_datatype_groups" a JSON file with the structure defined in the file "03_superficieAreeServizio.json" In the JSON file there are 2 fields for saving totale area:
attività	TODO IN ANOTHER TASK						
superficieEdificato	<p>Tables:</p> <ul style="list-style-type: none"> search the list of tables in table: "ws_datatype_tables" (osm_buildings) <p>Output:</p> <ul style="list-style-type: none"> a GeoTIFF file (multilevel): with the levels grouped according to the data stored in the table "ws_datatype_groups" a JSON file with the structure defined in the file "02_superficieEdificato.json" In the JSON file there are 2 fields for saving totale area: <ul style="list-style-type: none"> "layer_area": with the area of a single layer "totale_area": with the are of all layers 						
superficieAreeServizio	<p>Tables:</p> <ul style="list-style-type: none"> search the list of tables in table: "ws_datatype_tables" (osm_landuse) <p>Output to be produced:</p> <ul style="list-style-type: none"> a GeoTIFF file (multilevel): with the levels grouped according to the data stored in the table "ws_datatype_groups" a JSON file with the structure defined in the file "03_superficieAreeServizio.json" In the JSON file there are 2 fields for saving totale area: 						

		<ul style="list-style-type: none"> ○ "layer_area": with the area of a single layer • "totale_area": with the are of all layers
	struttureVarie	<p>Tables:</p> <ul style="list-style-type: none"> • search the list of tables in table: "ws_datatype_tables" (osm_pois) <p>Output:</p> <ul style="list-style-type: none"> • a JSON file with the structure defined in the file "04_struttureVarie.json"
	tutti	Selecting this parameter you will have to produce all the outputs previously described
DATA SOURCE		
<ul style="list-style-type: none"> • Download data from http://download.geofabrik.de/europe/italy/sud.html • Load these shapefile: <ul style="list-style-type: none"> ○ "gis_osm_buildings_a_free_1.shp" into table "osm_buildings" ○ "gis_osm_landuse_a_free_1.shp" into table "osm_landuse" ○ "gis_osm_pois_a_free_1.shp" into table "osm_pois" 		