SPATIAL DECISION SUPPORT SYSTEM

GIS-877

Term Project



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24718

MS 20 GIS

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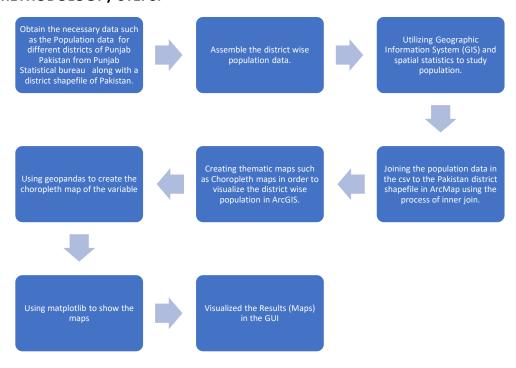
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1. INTRODUCTION:

This term project was based on making an SDSS for monitoring population density or population increase in the district of Punjab , Pakistan. So we got to understand what is an SDSS and what are their components. An SDSS is basically an integrated computer system which is used to solve semi structured or ill-structured problems and allows the user to perform effective decision regarding those problems. An SDSS involves many components that are as follows :

- Data Management Component
- Model Management Component
- Domain Management Component
- Stake Holder Management Component
- Knowledge Management Component

2. METHODOLOGY / STEPS:



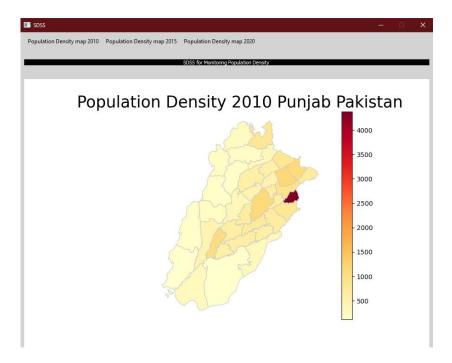
3. Libraries Used in This Project:

Following Libraries were used for the project.

Library	Use	
Pyqt5	For the creation of the GUI	
Geopandas	For the manipulation of the shapefile data	
Matplotlib	For the creation of the choropleth map	

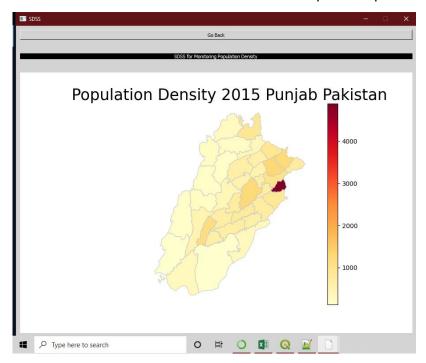
4. Working of the GUI and SDSS:

Once the code is executed, The main Page of the application shows up

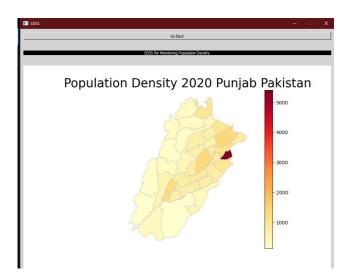


This main page includes the choropleth map which represents the increase in the population

After the second option in the menu bar is clicked it would display the second page of the GUI which would include the second choropleth map



Similarly you can open the third page which is as follows:



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