**Kathmandu University**

**Department of Computer Science and Engineering**

**Dhulikhel, Kavre**



**“COVID Mapping”**

**[Code No: COMP 207]**

**(For the partial fulfillment of 2nd Year/ 2nd Semester in Computer Science)**

**Submitted by:**

**Usta Adhikari (68)**

**Rajeshwor Niroula (71)**

**Milan Dhamala (73)**

**Bikramaditya Prasad Subedi (75)**

**Bigen Aryal(77)**

**Submitted to:**

**Mr. Nabin Ghimire**

**Department of Computer Science and Engineering**

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# **Abstract**

Not to mention, we are facing a global crisis due to a virus never known to the human mankind before. As the world is seeking to find a cure, we as a responsible citizen have been urged to stay home as we watch the counter increase every day. Given the circumstances of our country dealing with COVID, keeping track of the ongoing cases is a matter of life and death to the community or the whole country. Thus, staying updated on the go might help prevent you from possibly reaching places that has been known to have been infected so we came up with an idea of building a web app that basically keeps track of the COVID cases in a provincial manner. A choropleth map with a legend shows you the infection rates on your screen where we plan to serve datas from authentic sources allowing user to be visually informed of the infected zones which will help you take precautions before you plan your short trip or even go for a grocery. We will be using Python for building the backend and handling the source code. Meanwhile, folium will be used to visualize data that has been manipulated in Python using an interactive leaflet map enabling both the binding of data to a map for choropleth visualizations as well as passing rich vector/raster/HTML visualizations as a marker on the map. As for the database, MySQL features are enough for our simple database plan.