

E-LEARNING PLATFORM FOR WEB CARTOGRAPHY



DIPLOMA THESIS

OBJECTIVE

The objectives of this thesis is to create an e-learning platform for web cartography that incorporates a comparative evaluation of three prevalent JavaScript Mapping APIs: ArcGIS Maps SDK for JavaScript, Google Maps API, and Leaflet.

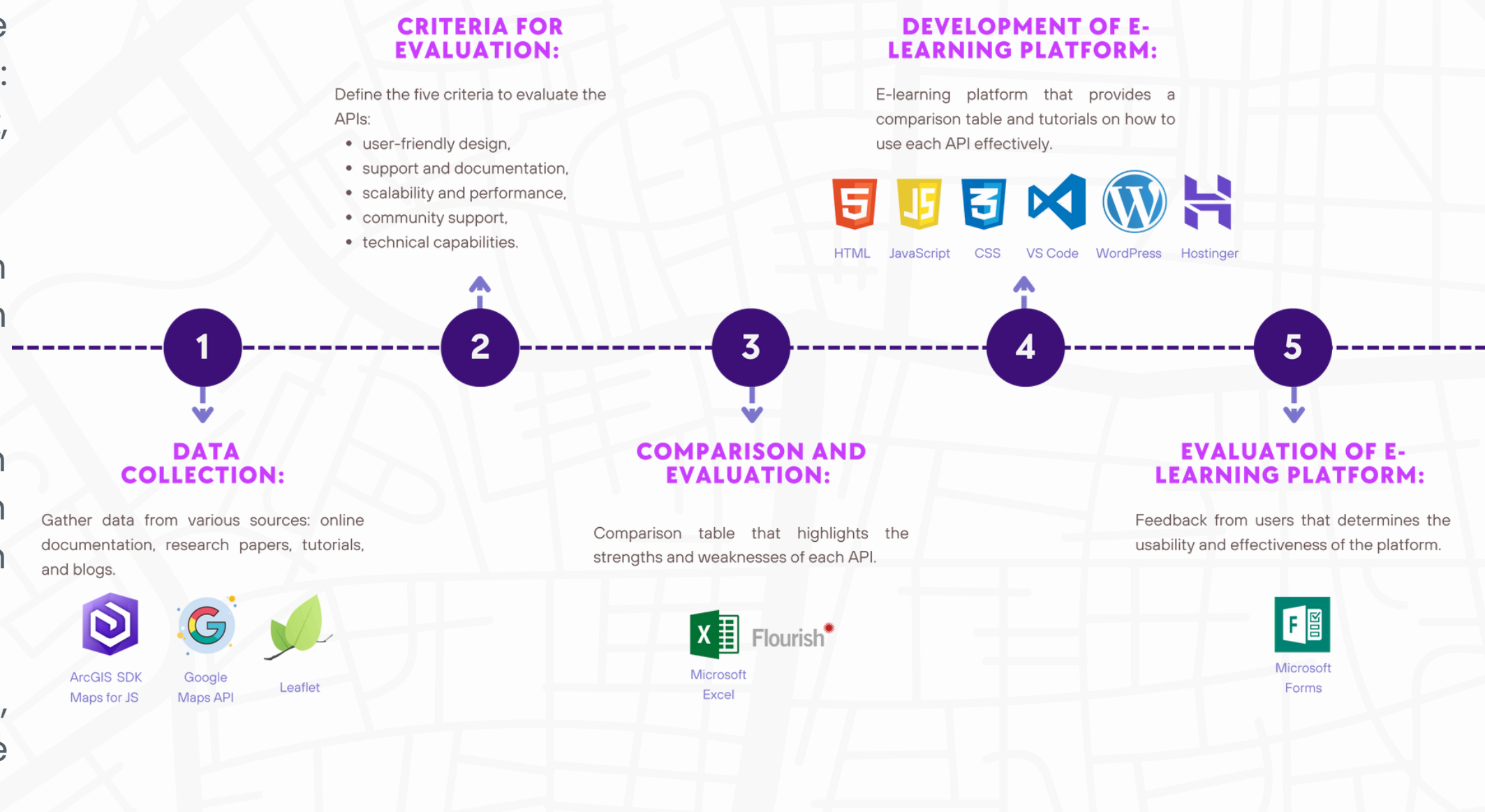
The research project's main objectives are to answer research questions:

1. What are the data visualization capabilities and cartographic design strengths and weaknesses of each JavaScript mapping API?

2. What are the similarities, specifics, and discrepancies between these APIs?

METHODOLOGY

A methodology comprising of five primary phases was devised to accomplish the objective of the diploma thesis.



RESULT

TUTORIAL SECTION

5

MAIN CRITERIA

70

SUB-CRITERIA

210

SAMPLES

COMPARISON SECTION

1

CASE STUDY

3

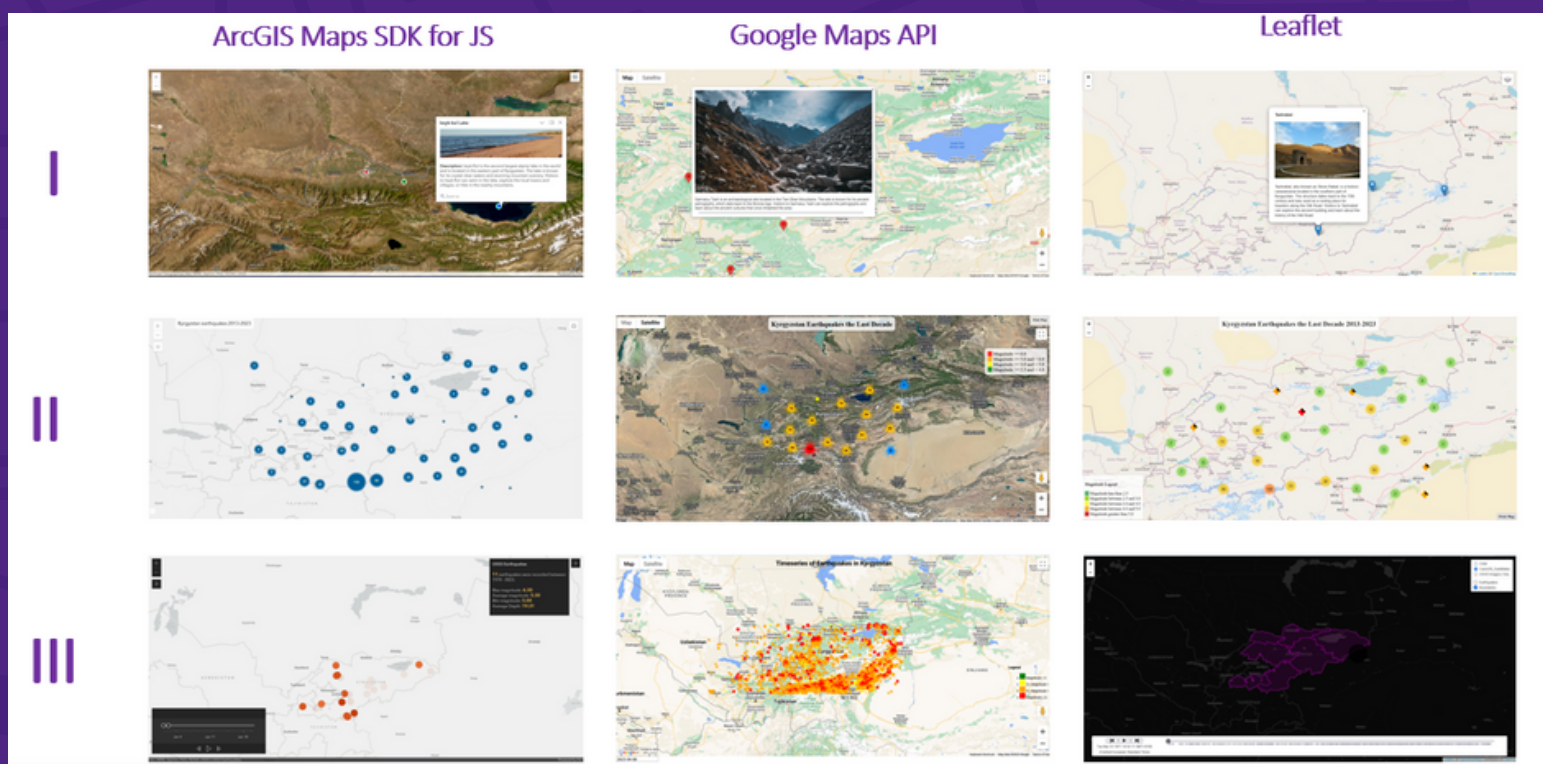
LEVEL COMPLEXITY

9

WEB MAPS



Located in Central Asia, Kyrgyzstan is a sovereign state that is entirely surrounded by land. It shares borders with Kazakhstan to the north, Uzbekistan to the west, Tajikistan to the south and China on its eastern front. The country's capital and biggest city is Bishkek, while its population stands at 6.692 million and covers a total area of 199 951 km².



1
GEOPICK



CONCLUSION

The aim of this thesis was to develop an e-learning platform for web cartography with a comparison table of three JavaScript mapping APIs and tutorials. Through the analysis provided by this platform, students can gain insight into each API's functionalities and benefits. The study identified the strengths and weaknesses of each API in terms of data visualization capabilities and cartographic design. Each API has unique advantages when utilized correctly. The expected outcome is that students will have a deeper understanding of individual APIs strengths, enabling them to make informed decisions when choosing software solutions based on various requirements or preferences.