

MIC Documentations

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17. desember 2024

1 Introduction

This document is a collection of all the documentation for the MIC (Map in Color) project. The project is a web application that allows users to create and share custom made maps displaying choropleth data from a CSV file. Technologies used in the project include React for the front end, Node.js for the back end, and Postgres for the database.

2 Creating a Map

To create a map in MIC, the user must navigate to the data integration page. They can select create a new map from the header or the sidebar menu. The user will get a pop up selection where they can select which type of map they would like to use e.g. World Map, US Map, Europe Map etc. The user will then be taken to the data integration page where they can upload a CSV file with the data they would like to display on the map. The CSV file must contain a column with the name of the country or region and a column with the data to be displayed. If the CSV file is not correctly formatted, e.g. missing columns, wrong region names, or incorrect data types, the user will receive an error log with all the issues and the line number where the issue occurred. If all the data is valid the user can proceed to define custom ranges for the data. The user also has an option to generate suggested ranges with desired number of ranges. The user can name their ranges and select a color scheme for each range. Once all the ranges are defined and are valid and do not overlap with each other the user can generate groups that will be displayed on the map preview below. The user can also customize the map theme either by selecting from a preset of themes or by selecting custom font color, ocean color and unassigned countries color. Once that is done the user will get a map settings pop up where the title of the map is defined with the option to hide it, a map description, map tags and visibility options of public and private. Once the map is created the user can navigate to the map view page where they can see all the information about the map and share it with others.