

Country, Weather & Exchange Rate App

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Introduction

The app covers functionality described in the Final Project Specification 2023.

Functionality covered

The following functionality implemented in the app:

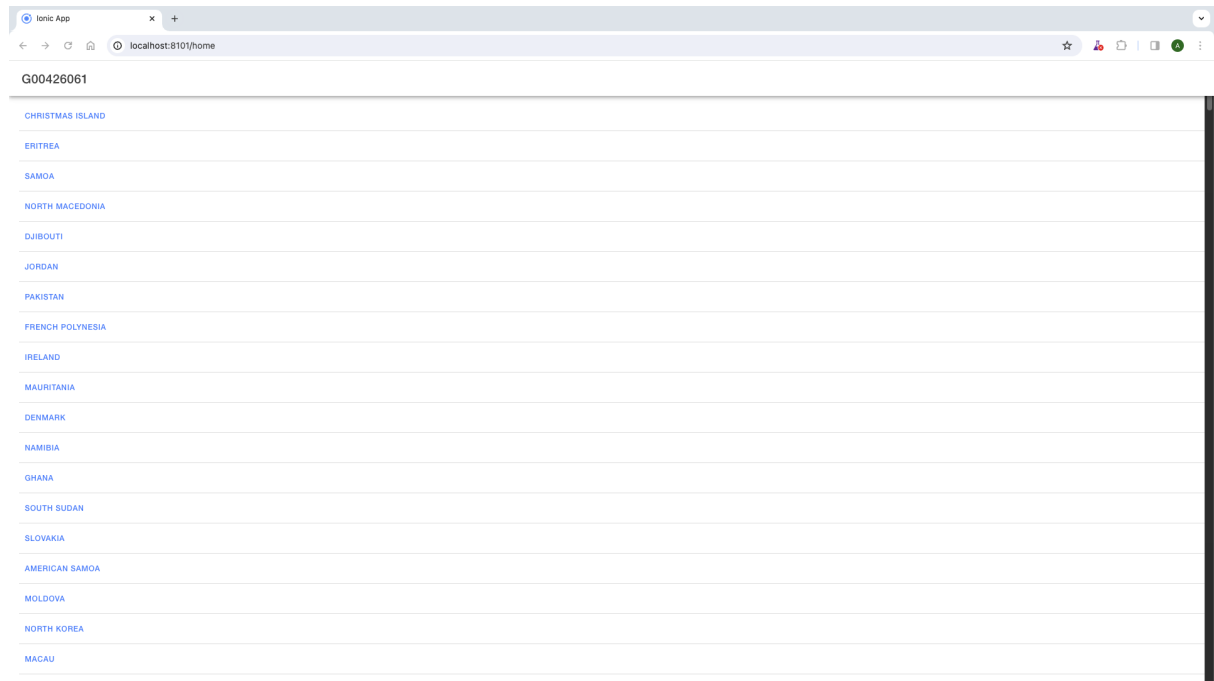
1. **Display list of countries from <https://restcountries.com>**
 - 1.1. HTML for home page is in home.page.html, each country in the list implemented as <ion-button> with routing to country-details page.
 - 1.2. Getting data from <https://restcountries.com/v3.1/all> implemented in MyHttpService.
 - 1.3. Storing data to IndexedDB implemented in MyDataService.
2. **Display country details (official name, capital, population)**
 - 2.1. HTML for country-details page is in country-details.page.html with official name, capital and population obtained from IndexedDB
 - 2.2. Getting of flag, capital and official name handled in country-details.page.ts getCountryDetails() .
3. **Display weather from <https://weather.visualcrossing.com>**
 - 3.1. Weather receiving is handled in country-details.page.ts getWeather() with helper method in my-http.service.ts getWeatherInfo()
4. **Display list of languages**
 - 4.1. Getting languages stored in IndexedDB is handled in country-details.page.ts getLanguages()
 - 4.2. In HTML iteration through languages performed with *ngFor="let language of getLanguages(storedResult.languages)"
5. **Display currency in input “Enter {{currency}} amount”**
 - 5.1. Getting the first currency symbol is implemented in country-details.page.ts getFirstCurrency(). This value is used in HTML
6. **Convert to EUR button conversion with <https://v6.exchangerate-api.com/>**
 - 6.1. Conversion is performed in in country-details.page.ts convertToEUR()
 - 6.2. Url for conversion is composed from country currency code received via getFirstCurrency(), amount input by user formatted to xxxx.xxxx required by API with Angular DecimalPipe and my API key
 - 6.3. Helper method for requesting exchange created in my-http.service.ts getCurrencyInfo

Testing

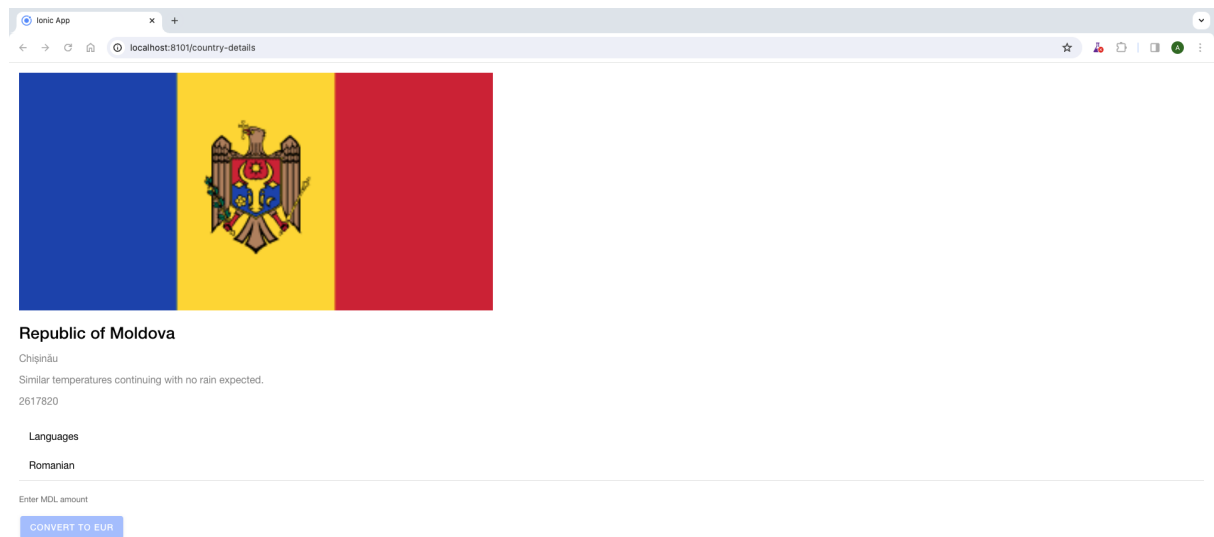
Testing performed in Chrome browser with Developer Tools simulating iOS and Android devices.

Chrome browser desktop:

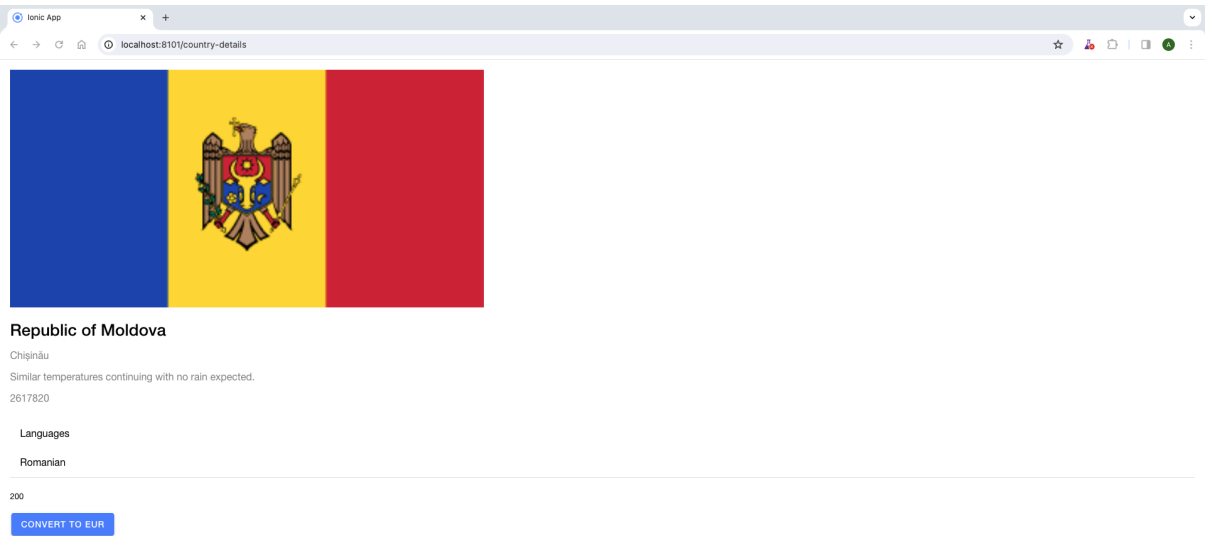
Home



Country-details



Input amount for conversion

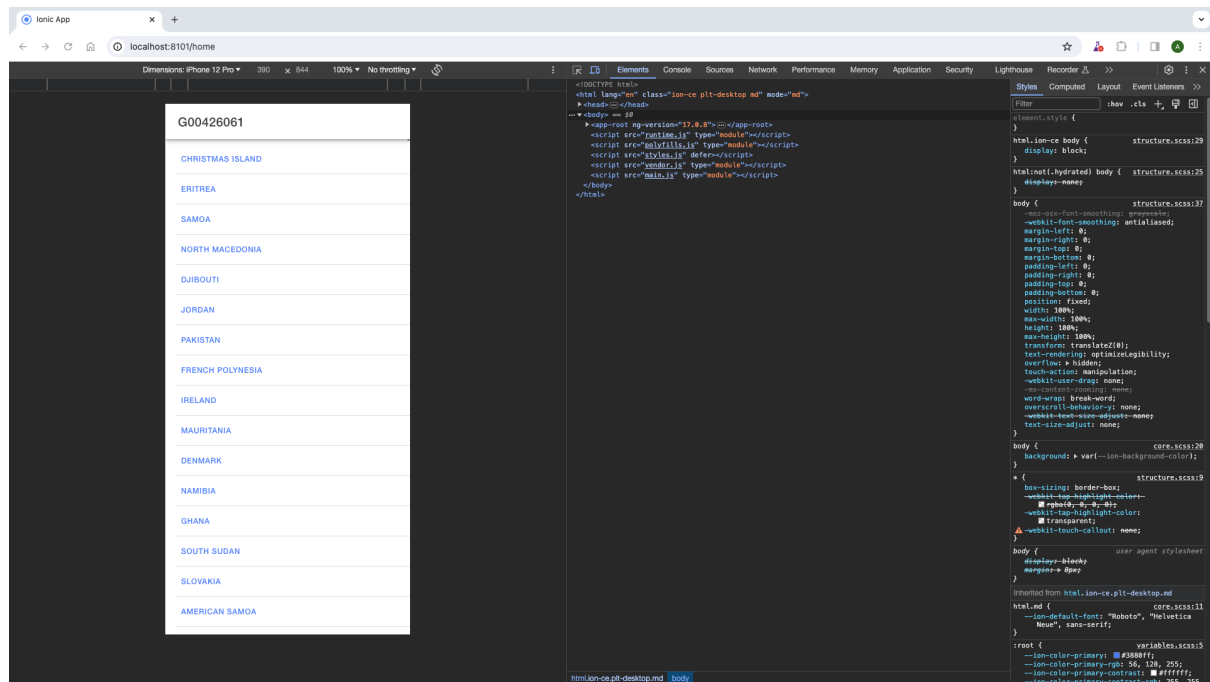


Currency conversion performed

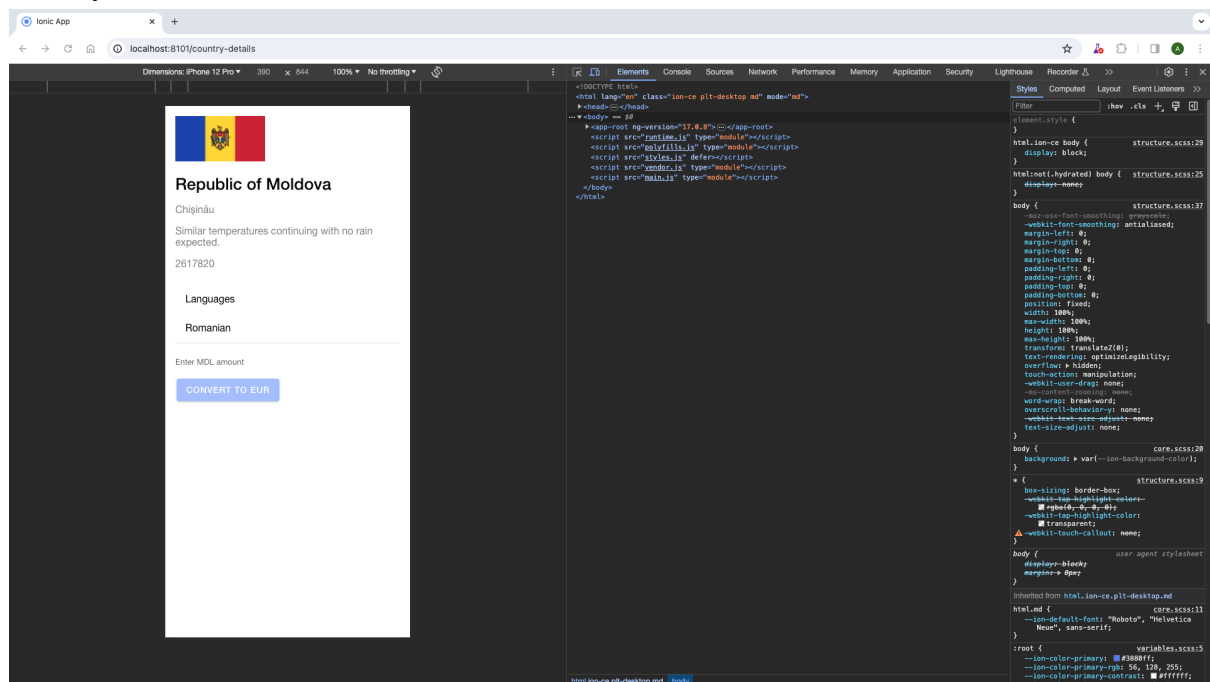


Chrome iOS (iPhone)

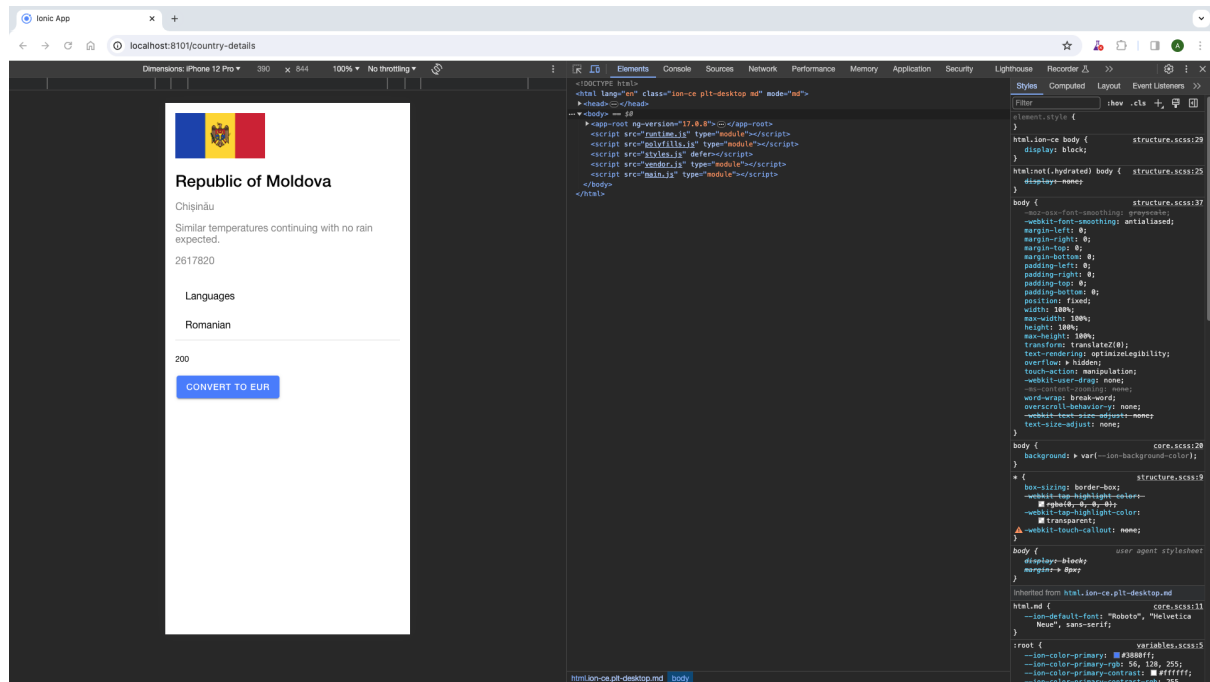
Home



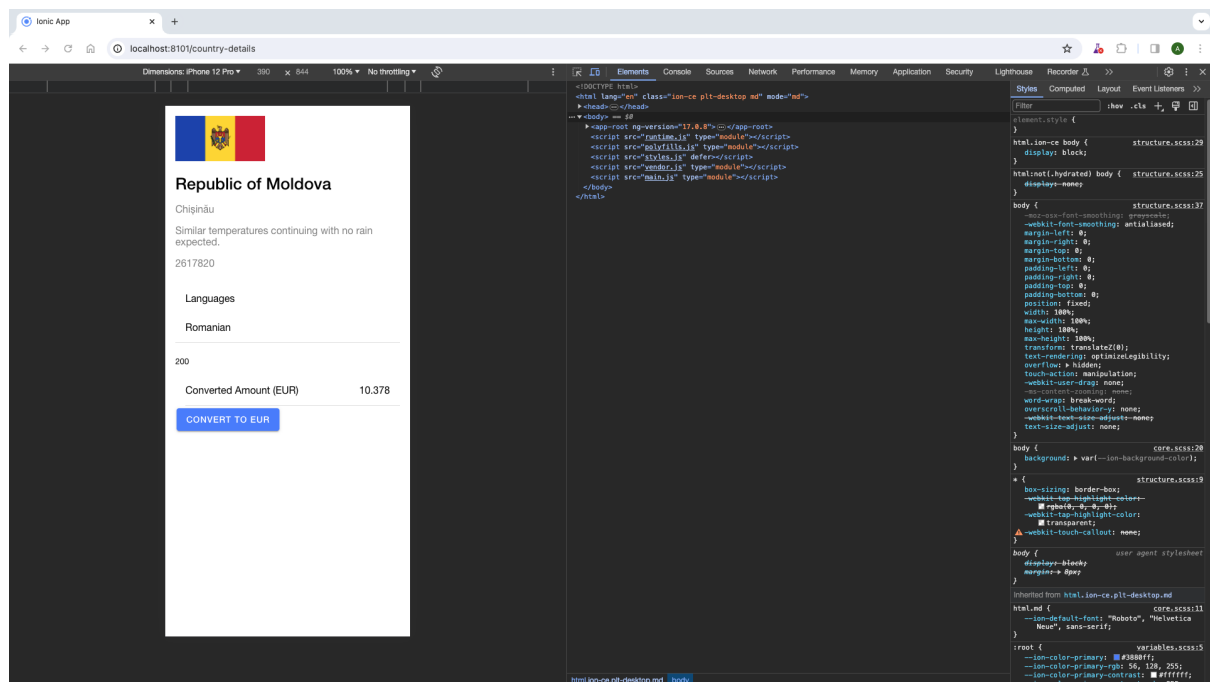
Country-details



Input amount for conversion

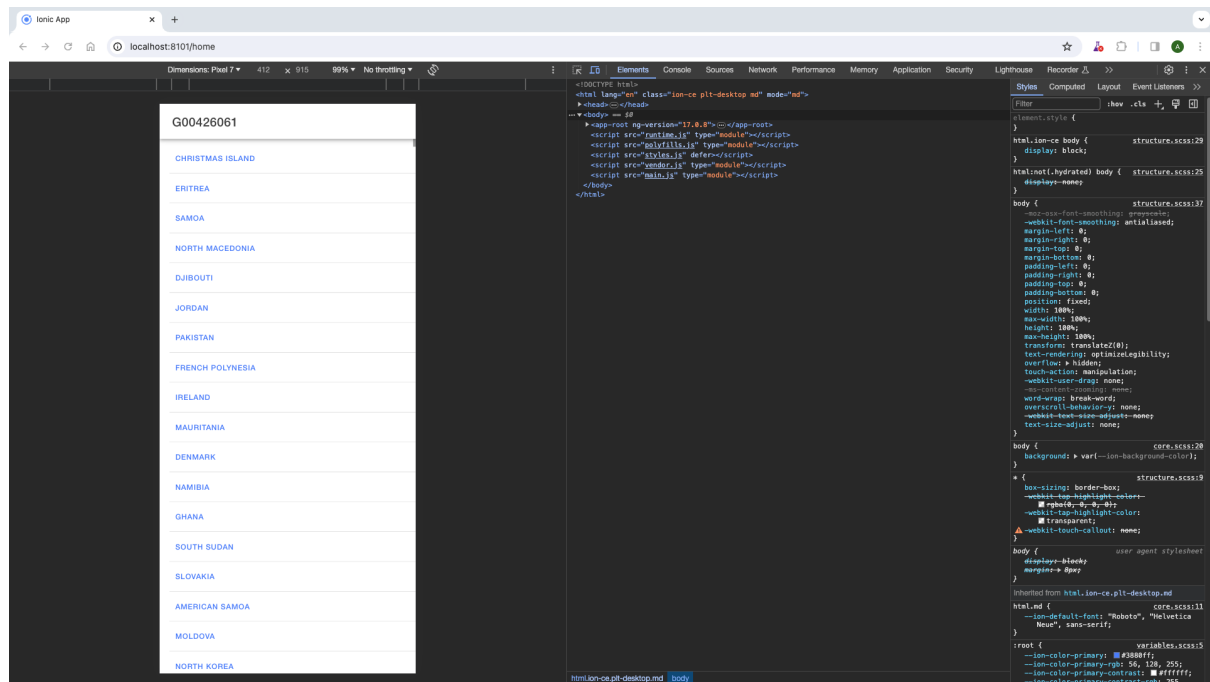


Currency conversion performed

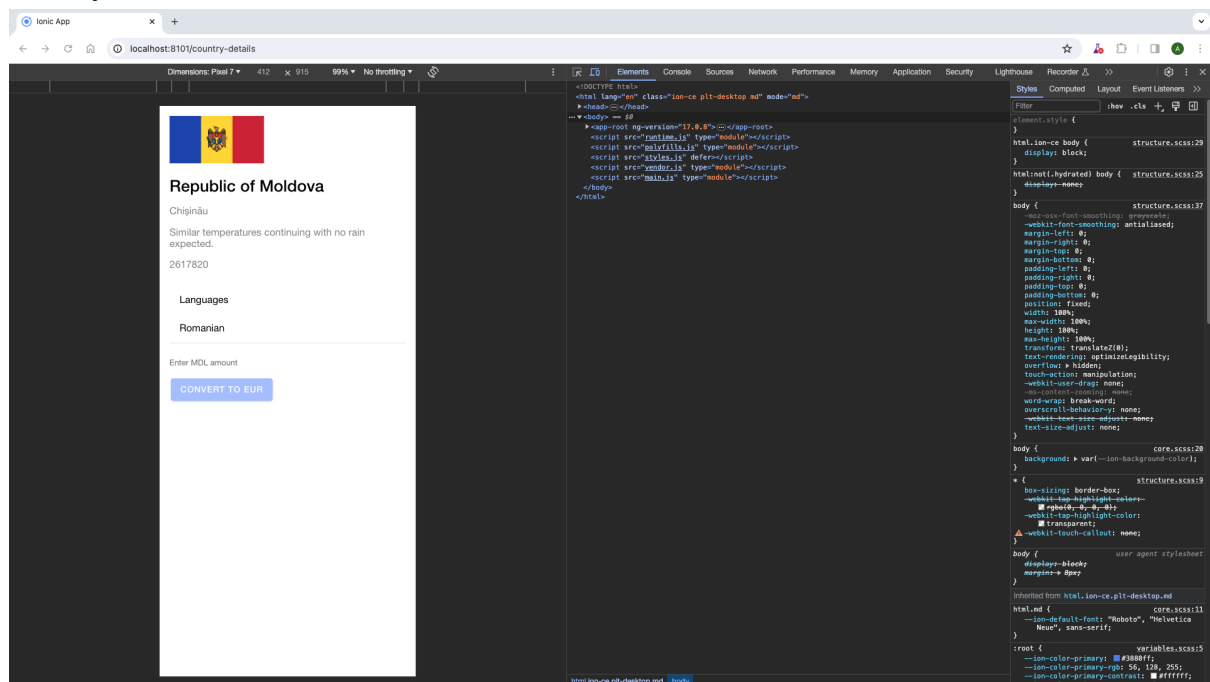


Chrome Android (Pixel)

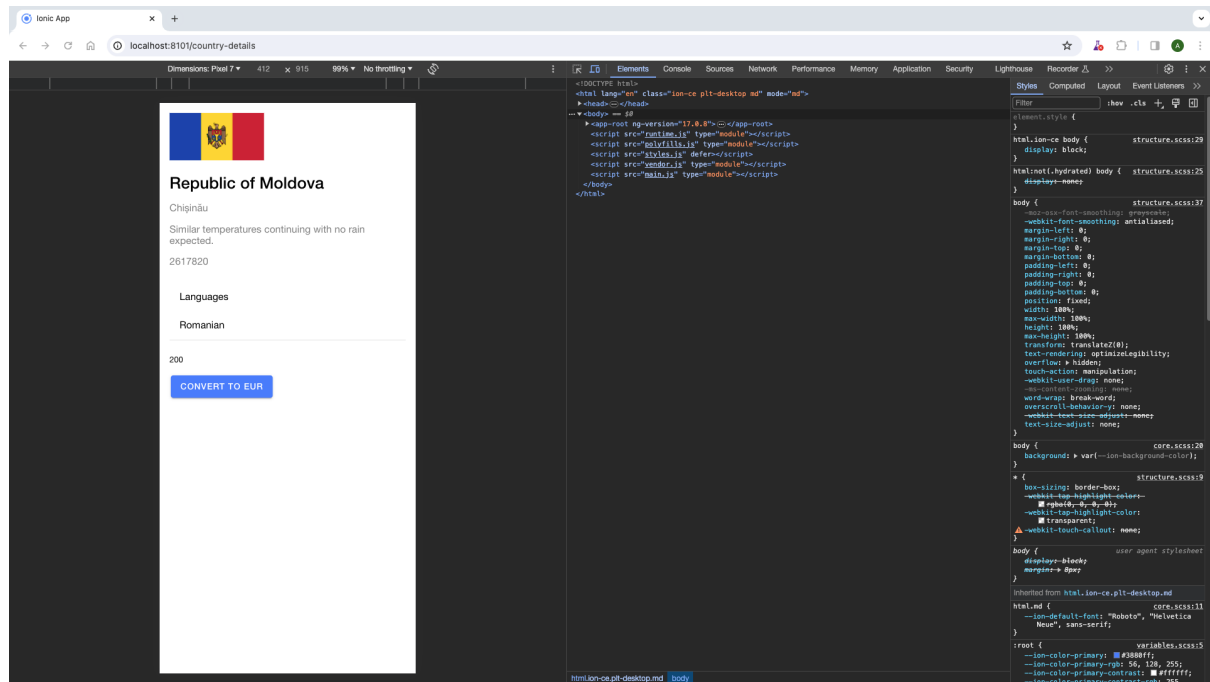
Home



Country-details



Input amount for conversion



Currency conversion performed

