**Third Party Libraries Used in the Project**

**Back End:**

1. C# / .NET 8.0
2. AngleSharp: used in web scrapping to create a dataset that was fed to our AI model. \*[AngleSharp/AngleSharp: :angel: The ultimate angle brackets parser library parsing HTML5, MathML, SVG and CSS to construct a DOM based on the official W3C specifications. (github.com)](https://github.com/AngleSharp/AngleSharp)
3. Selenium: used in web scrapping to create a dataset that was fed to our AI model. \*[Selenium](https://www.selenium.dev/)
4. DomTut.uz: the website we scrapped for real estate data. \* [Новостройки в Ташкенте | Квартиры в Ташкенте от застройщиков (domtut.uz)](https://domtut.uz/)
5. GeoCoordinate.NetCore: open source library to calculate the distance between to points on the map. \* [NuGet Gallery | GeoCoordinate.NetCore 1.0.0.1](https://www.nuget.org/packages/GeoCoordinate.NetCore/1.0.0.1)
6. OpenStreetMap: open source map data provider/database. \* [OpenStreetMap](https://www.openstreetmap.org/about)

**AI/ML:**

1. NumPy: an open source library for scientific calculating with Python. \*[NumPy](https://numpy.org/)
2. Scikit-Learn: an open source machine learning library. \* [scikit-learn: machine learning in Python — scikit-learn 1.5.2 documentation](https://scikit-learn.org/stable/)
3. Pandas: data analysis libraray. \*[pandas - Python Data Analysis Library (pydata.org)](https://pandas.pydata.org/)
4. JobLib: for compression and the execution of the AI model. \*[Joblib: running Python functions as pipeline jobs — joblib 1.4.2 documentation](https://joblib.readthedocs.io/en/stable/).

**Front End:**

1. React - javascript library for creating web-apps (open-source) \*[React](https://react.dev/)
2. Typescript - javascript types for better development (open-source) \*[TypeScript: JavaScript With Syntax For Types. (typescriptlang.org)](https://www.typescriptlang.org/)
3. Vite - javascript bundler (open-source) \*[Vite | Next Generation Frontend Tooling (vitejs.dev)](https://vitejs.dev/)
4. YandexAPI - to open map in the web-app \*[Yandex Maps API for business](https://yandex.com/maps-api/)
5. YandexSuggestAPI - to find suggestions depending on longitude and latitude \*[Geosuggest — Address finder with validation — API Yandex Maps](https://yandex.com/maps-api/products/suggest-api)
6. Eslint, prettier - for code quality (open-source) \*[Find and fix problems in your JavaScript code - ESLint - Pluggable JavaScript Linter](https://eslint.org/)
7. React-icons -> open-source icons, used with font-awesome \*[React Icons (react-icons.github.io)](https://react-icons.github.io/react-icons/)
8. Tailwinds, postscss -> css framework, that has predefined style system that is scalable \*[Tailwind CSS - Rapidly build modern websites without ever leaving your HTML.](https://tailwindcss.com/)