

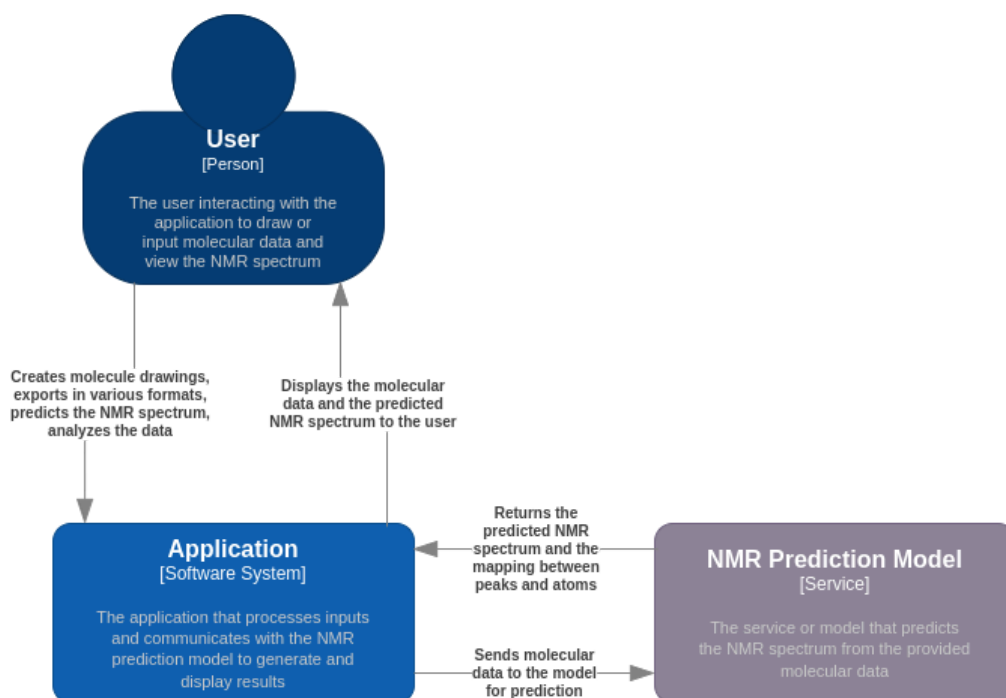
# System Architecture

## 1. Technologies used

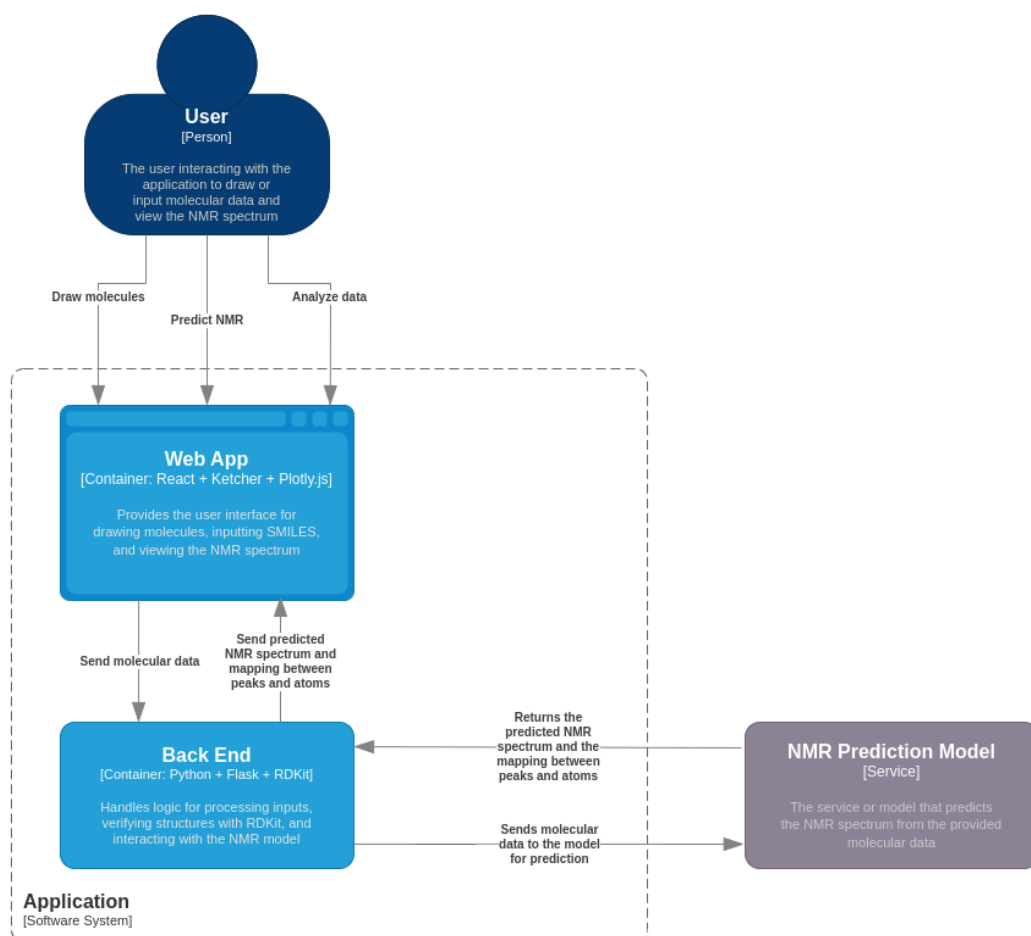
- **Backend** : Python + Flask + RDKit + SciPy + Jcamp + Scikit-Learn
- **Frontend** : React + Ketcher + [Plotly.js](#) + Mui - Material
- **Api** : Communication between frontend and backend via API calls
- The system will be based on a **client-server architecture** with an API between the frontend and the backend. It can be used as a local Desktop App or as a remote Web App.

## 2. C4 Models

### ■ Level 1 - Context

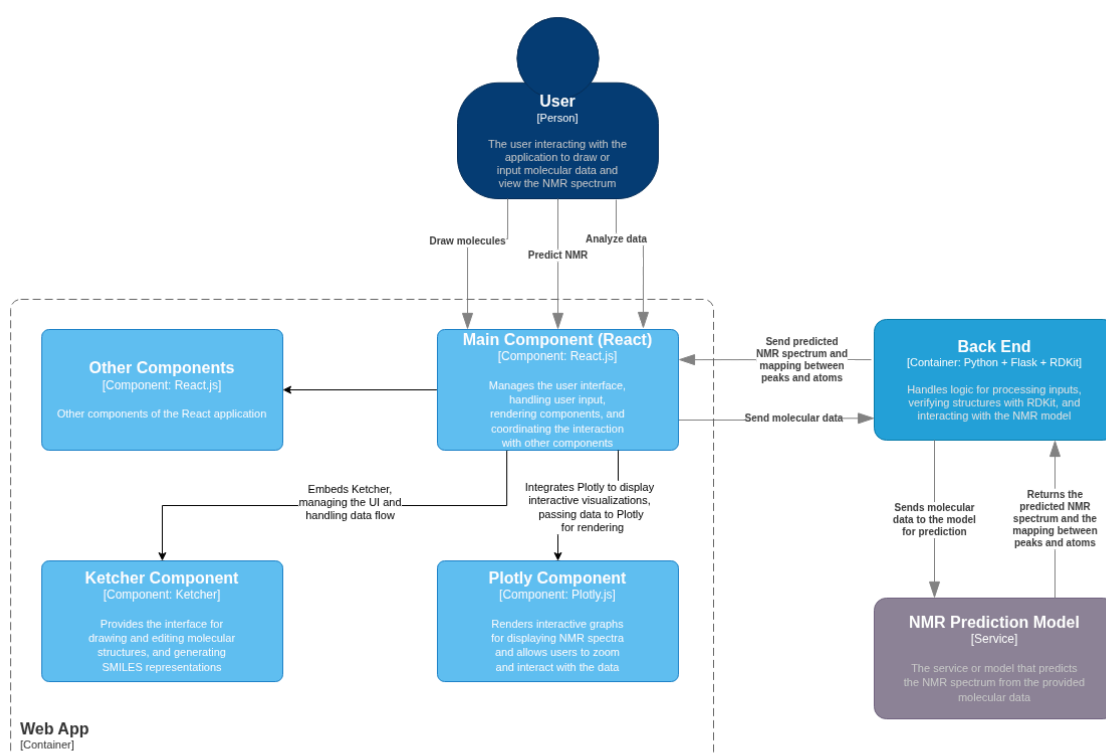


## ■ Level 2 - Containers

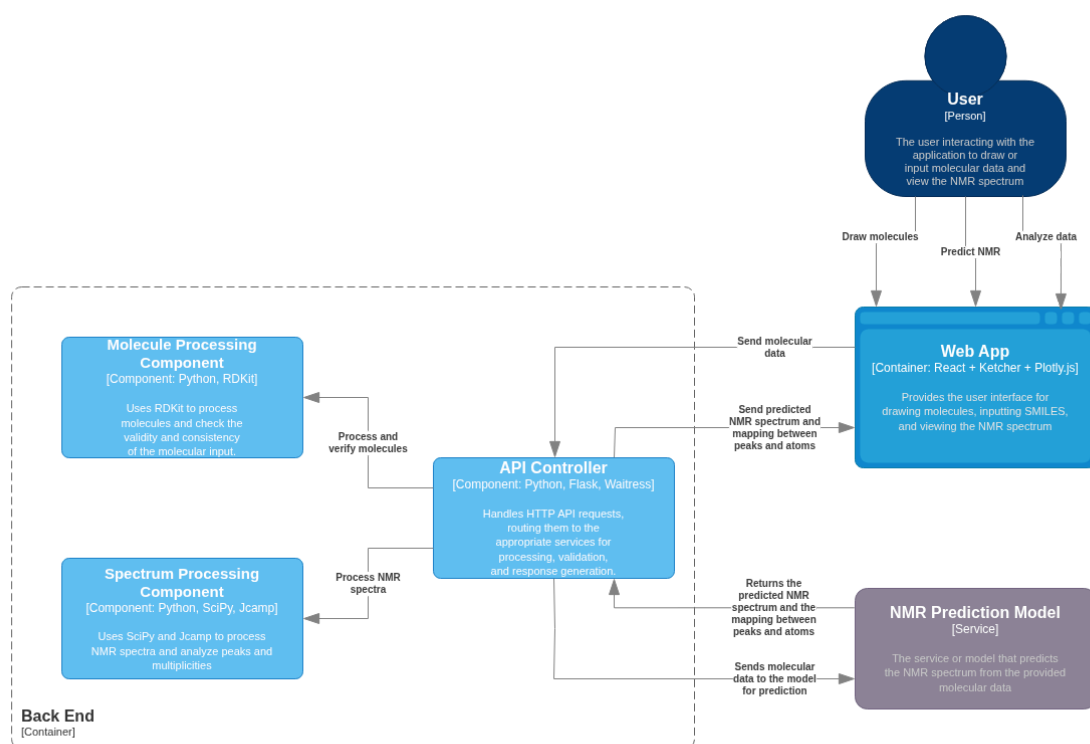


## ■ Level 3 - Components

### Web App Container



## Back End Container



### 3. Sequence diagrams

#### Predict an NMR Spectrum

