Backend

The Flask server has three main responsibilities:

- Hosting the frontend's static files

    - The Flask server serves the build files generated by React

    - Allows deployment of an application where the frontend and the internal API are hosted on the same server.

- Hosting the internal API

    - The internal API is an API exposed by the Flask backend. It serves as an interface between the React frontend and the backend's Python services.

    - It manage various HTTP routes:

        - Route to predict NMR data from a SMILES :
          `/api/predict`

        - Route to convert a SMILES into a kekulized format :
          `/api/convertToKekuleSmiles`

        - Route to detect the NMR peaks and multiplicities :
          `/api/detectSpectrumRegions`

        - Route to load a JCAMPDX file :
          `/api/loadJCAMP`

        - Route to obtain the molecule image with IDs :
          `/api/getMolImageWithIds`

        - Route for the internal prediction model :
          `/api/simpleModelPrediction`