Graphic Walker

- Launching UI:
  - Click on PygWalker folder -> backend -> WebApplication1 -> open WebApplication1.sln in Visual Studio
  - In the appsettings.json add your local machine hostname in Server=
  - Build the solution and click on http play button
  - Open frontend code in VS code -> npm start

- Using Graphic Walker:
  There are two tabs: one for designing dashboards and another for viewing saved dashboards.
  - Design Dashboards:
    To create a new dashboard, drag and drop the field names on x-axis and y-axis.
    - Tools of Graphic Walker:
      Hover over the icons to change graph according to your preference:
      1. Aggregation: Used to apply aggregate functions to the field name if aggregation is selected
      2. Mark Type: Used to create different types of charts such as bar, line, arc, area, etc
      3. Stack Mode Used to stack different data points on top of each other
      4. Layout Mode: Used to adjust the width and length of the graph.
      5. Export: Graphs can be exported in PNG, CSV, or SVG format within Graphic Walker
    - Filters in Graphic Walker:
      Drag and drop any field name into the filter section to apply filters to the corresponding column. Similarly, drag and drop any field name into the color, opacity, or size fields
    - Renaming Fields in Graphic Walker
      Click on the three dots beside the field name and select the "Rename Field" option.
    - Applying Aggregation
      To apply aggregation functions like sum, count, min, max, etc., to a particular field, click on the three dots beside the field name and select "Move to Measures." Once the field is moved to measures, drag and drop the field name and click on it to see various aggregation functions.
    - Filtering Data by Time
      To filter data weekly, monthly, or yearly, click on the three dots beside the field name and choose "Change Semantic Type" to "Temporal." Once the semantic type is changed, click on the three dots again and choose "Time Unit" or "Time Feature," then select weekly, monthly, or yearly. This adds a separate field list for it; drag and drop the field into the x-axis or y-axis.
    - Export Dashboard
      To export the dashboard in JSON format and save it to the database, click on the "Export Dashboard" button, enter the dashboard name, and click "OK."

  - View Dashboard:
    All saved dashboards can be viewed here. Select a particular saved dashboard and click "Show Dashboard."
    - If there is a single dashboard, the user will be able to view it along with filters.
    - If there are multiple dashboards, the user will be able to view them without filters.