1. Generate a new LiveView project with basic auth.
2. After logging in the users should be presented with a simple sidebar layout with two pages: "Your plots" and "Shared with you". Use https://tailwindui.com/components/application-ui/application-shells/sidebar as a reference for the general look and feel.
3. On the "Your plots" page the user should be able to create a new plot by inputting a plot **name**, **dataset name** and an **expression**. Where dataset name is a name of a CSV in this repository: https://github.com/plotly/datasets/tree/master and expression is a name of a column in that CSV. When the fields are valid a histogram, showing the frequency (count) of values for the expression, should be rendered on the frontend using plotly.js (https://plotly.com/javascript/histograms/).
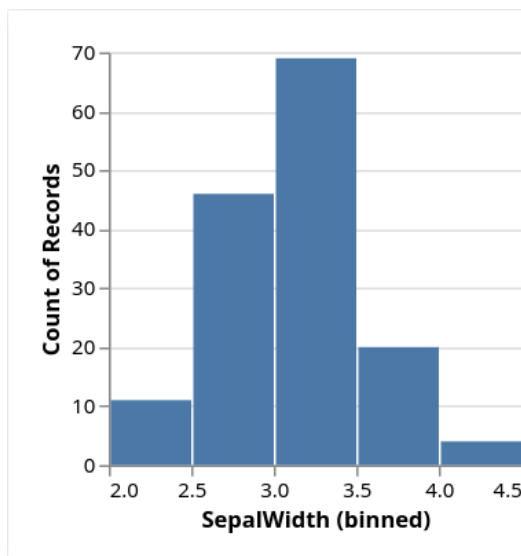
   Specifically if the user input is:
   Name: My Plot
   Dataset name: iris
   Expression: SepalWidth

   The rendered plot is **similar (not identical, use plotly.js)** to:

   https://vega.github.io/editor/#/url/vega-lite/N4IgJAzgxgFgpgWwIYgFwhgF0wBwqgegIDc4BzJAOjIEtMYBXAI0poHsDp5kTykBaADZ04JAKyUAVhDYA7EABoQAEySYUqUAwBOgtBmx5CBbUgDu1OoyYMIcbVDmY4szJUcICOQW0yCAngSq6naYEATIEM7aBDTaNBDuEMQgAL5KyNoA1vpMSNqKIC6OyjSyZGigAB6VIExlaJjaDHBKAGY0cILK+gDKcDhIggDqNMr0aUr+tUhkZNp8zvqqODK5pqalAA/view
4. The user can see the changes to the plot live as they update the fields and save the plot when they're done.
5. Saved plots are rendered on the "Your plots" page.
6. The user can edit saved plots and save them again.
7. A user can click a button to share a plot. This allows them to pick any other existing user to share it with. The plot is now rendered on that user's "Shared with you" page.
8. Only the user who created the plot can edit it.
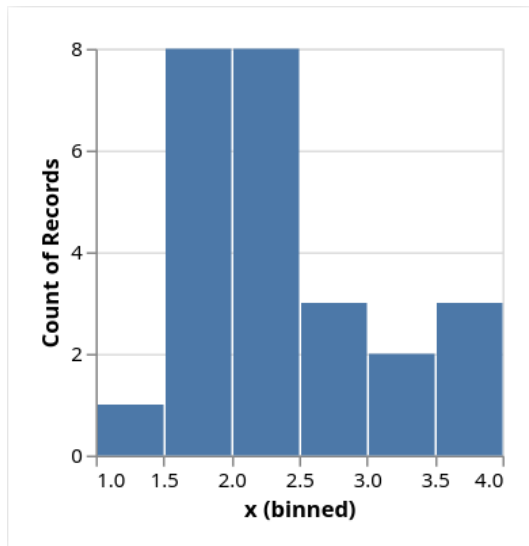
9. Expressions can be binary operations of numerical columns including +, -, *, /
      Specifically if the user input is:
            Name: My Other Plot
            Dataset name: wind_speed_laurel_nebraska
            Expression: '10 Min Std Dev' + '10 Min Sampled Avg'

            The rendered plot is **similar (not identical, use plotly.js)** to:

https://vega.github.io/editor/#/url/vega-lite/N4IgJAzgxgFgpgWwIYgFwhgF0wBwqgegIDc
4BzJAOjIEtMYBXAI0poHsDp5kTykBaADZ04JAKyUAVhDYA7EABoQAEySYUqUAwBOg
tBmx5CBbUgDu1OoyYMIcbVDmY4szJUcICOQW0yCAngSq6naYEATIEM7aBGY0ssoA
+hA4cHBJgkg6cIKJsnBMphAA1IRQEMQgAL5KmKayEABmbNoIaADaoFBIgIAMmc76w
QwI7QDkAIwADAAEALLxMwDKmMozACJwxGMAujMA1DPDo5OzC7LLSAje6TMAgsR
ku4ogSBD6AB7VO0rI2sX6JhIbQvFyOZTxMhoUBfTQgJjxNB1BhwJSNGg5ZSfapKfzQ1
5kMjaPiDdCOBiuapVKpAA/view

As part of your presentation you may include how you would implement: live updates of shared
plots as they are updated by the creator, collaborative editing, more advanced expressions,
interactive plots.