Visualisation process book structure

* **Title page –** Your title page should include:
  + descriptive title (Data Visualisation Project will not be accepted)
  + link to Mercury-hosted website
  + team name and team member names/IDs
  + year and teaching period
  + total word count
* **Table of contents**
* **Introduction**
  + **Background and motivation –** Who will use or be interested in this visualisation (users)? What kind of tasks will they want to do? Why is this important? – Thang Truong’s responsibility
  + **Visualisation purpose** – What questions will the user be able to answer with your visualisation? List the possible benefits of the completed visualisation.
  + **Project schedule –** Make sure that you plan your work so that you can avoid a big rush right before the final project deadline. Write this in terms of weekly deadlines.
* **Data**
  + **Data source** – From where and how are you collecting your data? Provide a link to your data sources. What type of data set (table, network, field) is it? What are the attributes in your data set and what type of data are the values (categorical, ordinal, interval, ratio/quantitative)? Is there any data in the set that will not be included in your visualisation? Why?

**Note:** Make sure that the data can be used to answer the questions outlined under 'Visualisation purpose'.

* + **Data processing** – Do you expect to do substantial data cleanup? What quantities do you plan to derive from your data? How will data processing be implemented? Will you be deriving any variables? You should also describe the cleanup process that was implemented as well as an explanation and calculation of derived variables (if used).
* **Requirements**
  + **Must-have features** – These are features without which you would consider your project to be a failure. Were you able to deliver all the promised features? If not, explain why.
  + **Optional features** – Those features which you consider would be nice to have, but not critical. Were you able to deliver any of these extra features?
* **Visualisation design** – How will you display your data? Provide some general ideas that you have for the visualisation design. Include sketches of your design. Include at least 2–3 alternative ideas for your visualisation. Describe and justify your choice of visual encoding and idioms. Show the evolution of your design. How has it progressed? Justify the visualisation idioms you have chosen to represent your data. Description (including screenshots) and explanation of final design.

**Note:** You are encouraged to provide your own structure to this section.

* **Validation** (optional) – Test your visualisation with users and report the results.
* **Conclusion –** Provide a summary of the project and what you learned from doing it.
* **References** – Provide a complete list of references consulted (including blogs, books, academic papers, discussions/forums) using the APA 7th edition style referencing conventions.