1 Thesis structure

1. ABSTRACT
2. INTRODUCTION
3. THE ISSUES OF MENTAL HEALTH
   (a) Why is MH relevant
      i. A rising problem (find statistics from many different countries)
         A. MH issues: depression, anxiety, ADHD, OCD, BPD...
         B. DSM-V definitions of disorders
         C. Which disorders do I focus on?
      ii. MH and social capital
      iii. MH and public spending (prevention and treatment)
      iv. MH and private spending
      v. MH and healthcare spending (+talk about comorbidity between MH issues)
      vi. MH and private choice (savings, childbearing, employment)
   (b) Provide literature on MH in general (brief history, up to date literature) + on specific issues brought up in the previous point
   (c) How is it measured?
      i. Psychometric tools (most common scales, have they changed during the years)
      ii. Reliability of questionnaires (self-administered and under supervision administered)
      iii. Most frequently used ones + have they changed recently? How do their scores behave?
4. FRAMING THE RESEARCH QUESTION
   (a) Q: how can we study the effect of MH on Y (education, free time use, employment, social networks quality and quantity, health outcomes)?
   (b) Literature review focused on this question: strategies, weaknesses of most common strategies.
   (c) Which data would I have in an ideal world?
   (d) Which analysis would I do in the ideal setting?
   (e) Using the pandemic as an identification tool.
      i. Does the pandemic correlate with MH? Indicator of possible relevance of the instrument, so put a plot + R^2 .
   (f) The identification challenge.
      i. Reverse causality.

ii. Measurement error.
iii. Simultaneity.

5. THE DATA
   (a) SHARELIFE DATASET
      i. Describe the dataset.
      ii. What variables are relevant to me?
      iii. Building a MH indicator + reference other literature.
      iv. Plots and other graphic representation to explore and understand the dataset.
      v. Potential collinearity between variables.
   (b) PANDEMIC RESTRICTIVENESS DATA
      i. Describe data
6. IDENTIFICATION STRATEGY
   (a) IV approach
      i. The method (brief explanation)
      ii. The instruments + novelty of my new instrument
      iii. Weaknesses + strenghts
      iv. How to evaluate method performance
   (b) ML/non-parametric approach to the first stage of IV
      i. The method
      ii. Advantages and disadvantages with respect to regular IV
      iii. How to evaluate method performance
7. ESTIMATION
   (a) Data cleaning (variables transformation)
   (b) Run the models
   (c) Plot results
   (d) Comment results
8. DISCUSSION
   (a) What did I find?
   (b) How does it compare with the most reliable literature?
   (c) How do the IV and IV+ML results compare?
9. CONCLUSION
   (a) Recap
   (b) How could the work be improved?
   (c) What is the main contribution of my work?