**General Instructions:**

* Don’t write this paper for a professor, write it for your boss.
* A picture (process chart) is worth a thousand words, so draw diagrams where you can
* Assume the reader is an executive that has limited technological background when justifying decisions.
* Can you quantify a business impact?
* Outline for both papers is given below

**Section - I**

**Introduction**

* Explain the purpose of the paper in a couple of paragraphs
* Describe the industry and the application you are using for this paper
* Explain which methodology was used to build this system, what are the benefits (or disadvantages of this methodology)

**Current system overview**

* + Provide architectural diagram
  + Explain data sources that you currently have (internal, external)
  + Describe the technologies used (databases, operating systems)
  + What reporting tools are used, and what are their uses as per your understanding
  + Provide cost of the current systems

**Limitations with current system**

* + Database system limitations?
  + Batch processing timing limitation?
  + System/capacity constraints such as space, CPU, users
  + Analytics tools which are currently in use, what are their limitations

**Section II**

**Introduction**

* Provide justification as to why we need the proposed/recommended system

**Recommended system overview**

* Draw an architectural diagram of the proposed system
* Provide the technologies (databases, operating systems, analytics tools etc.) that best suit the recommended target system
* Provide recommendation on the methodology
* Provide cost of the proposed system and calculate estimated capacity
* Provide different alternatives (real time, cloud, batch) along with your recommendations

**Conclusions**

* Justify why we should upgrade to the proposed system

**References**

* Cite all your sources and make sure to include citations in-paper, you can use any format e.g. APA or MLA or Chicago