1. Up to now, we discussed the problems related to monoliths.
2. Let’s talk about the problems related to SOA architecture.
3. Problems with ESB: Enterprise Service Bus  
   Graphical user interface, text, application, email

   Description automatically generated
   1. Main component in SOA and responsible for all the communication aspects b/w the various apps or services.
   2. ESB takes care of routing, validation, authentication, aggregation and more and without it, a service has a lot more work to do.
   3. **Can quickly become bloated and expensive**:  
      ESB engines were built by various companies such as oracle and IBM and were extremely expensive from the start.  
      In addition, they were complex beasts and required a lot of dedicated expertise to handle them.  
      This resulted in that only large organizations with deep pockets use them for a lot time and young and small companies avoided them at all costs.  
      This definitely didn’t help for the popularity of the service oriented architecture.
   4. **Tries to do everything**:  
      Routing, validation, authentication and when a single piece of code tries to do everything, it usually doesn’t end well.
   5. **Very difficult to maintain**:  
      Because of its complexity, ESBs are very difficult to maintain and organizations found themselves inventing a lot of time and money maintaining a monstrous ESB instead of enjoying a lightweight and the faster service oriented architecture which led them to abandon the idea.
4. Timeline

   Description automatically generated with medium confidence