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1. List at least 2 user needs from the SAMS manager.
   1. available 24\*7
   2. If corruption occurs, it must be able to be returned to a previous state before corruption
2. List at least 2 user needs from the technicians.
   1. Access/record to test results and events for aeroplane maintenance
   2. The airport technician needs to be able to keep track of each aircraft being tested under a certain test event
3. List at least five functional requirements of the database which is concluded from the needs of the user.
   1. Data entry portal to enter details of the aircraft model information
   2. Keeping track of aircraft origin and destination
   3. Keeping track of airlines and fleets of planes within that – cross referenced against manufacturers of those fleets or parts of said fleet
   4. Statistics what airline, what aircraft and how many of them have been serviced in the airport maintenance service
   5. The ability to record, update and search through technician training undertaken and qualifications received.
4. List the phases of the database life cycle involved in the SMS database project.
   1. Conceptual design
   2. Logical design
   3. Physical design
   4. Implementation and loading
5. List at least two design documents that you will produce at each phase of these database life cycle involved.
   1. Conceptual design
      1. Conceptual Schema ERD
      2. Data dictionary
      3. User requirement report
      4. Business Requirements report
   2. Logical design
      1. Logical schema
      2. Functional dependency document
      3. Functional dependency diagram
   3. Physical design
      1. Physical schema
      2. Database size
   4. Implementation and loading
      1. Test documentation
      2. Logging