

## Test Paper

1.
  1. Define the term **Failover**.
  2. Outline the potential problems mentioned in the case study.
2.
  1. Explain how the use of an API makes the service of CAD system available.
  2. The introduction of new technologies such as GPS does bring convenience to the construction of the new system. However, there may be other issues that need to be concerned about. Outline two possible ethical issues and explain what are the possible solutions for them.
3. Bangbai EDS system is designed with Multi-tier architecture in order to handle the increasing workload produced by citizens reporting many non-urgent issues and requesting the automatic dispatch of emergency services, the new system needs to be built on a scalable architecture and be compatible with future developments. The new CAD system contains the Presentation Tier, the Logic Tier, and the Data Tier. Please draw a structure diagram of this system.
4. How can the development of the mobile phone application contributes towards the development in the Bangbai emergency system?