

Case Study

Choosing a paint color for your house walls is a tough decision. To make this task easier, KCK paint company offers an online service where users can upload their home photos. The system then allows the user to visualize their walls in different paint colors, so that they can easily choose the best paint colors for their home. Users must register for a free account before using the service.

Question Group A

1. For the above information system, identify and discuss a possible threat against (a) integrity (b) confidentiality (one threat each). Be specific to the case study!
Secondly, propose and briefly discuss a security measure against each threat.
2. Using examples, explain the security design principles of fail-safe defaults and complete mediation.

Question Group B

1. For the above information system, identify and discuss a possible threat against (a) authenticity (b) availability (one threat each). Be specific to the case study!
Secondly, propose and briefly discuss a security measure against each threat.
2. Using examples, illustrate the difference between acceptance and transference risk control strategies.

[(8 + 4) + 6 marks]