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CS525 Assignment 1 Solution

Fall 2026

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Professional Practices — Fall 2026 | Total Marks: 20 | Due Date: 5 November 2026

Question 1 - Identify the category (10 marks)

Case	Category	Why this fits
Case 1 - Ahmed repair shop	Sole Trader	Ahmed runs the shop alone. He makes all decisions. He is personally liable for debts. He can lose his own assets.
Case 2 - TechVision Ltd.	Private Limited Company	TechVision is incorporated. It has a separate legal identity. Shares are held by shareholders. Shares cannot be sold to the public.
Case 3 - GlobalTech Solutions	Quality Management	The department checks software against agreed quality standards. It inspects products. It makes sure requirements are met.
Case 4 - SoftCore Technologies	Project Manager	The manager plans the new system. He allocates resources. He monitors progress. He keeps the work on time and in budget.
Case 5 - DigitalFuture Corporation	Corporate Manager	The senior manager sets long term strategy. He monitors the whole organisation. He handles serious problems across departments.

Question 2 - Identify the ethical issue (10 marks)

Case	Ethical issue	Why this fits
Case 1 - Hospital AI system	Software Risks	The system can fail to raise an emergency alert. A patient can be harmed. The risk was known and the software was still released.
Case 2 - Hiring system	Fairness or Discrimination	The system rejects qualified women and picks less qualified men. Gender decides the result, not skill.
Case 3 - Vendor selection	Conflicts of Interest	The engineer hides that his brother owns the vendor. His personal interest affects his professional choice. The cheaper and better offer loses.
Case 4 - Learning platform	Privacy	The university shares personal student records with an advertiser. Students gave no consent. They were not even told.
Case 5 - Server access	Unauthorized Access to Computer Systems	The admin enters a restricted server with someone else account. He has no permission. He has no assigned investigation.