## CS525 Assignment 1 Solution

Course: CS525 Professional Practices, Assignment No. 1, Fall 2026.

Student Name: [Insert Your Full Name Here]  Student ID: [Insert Your VU Student ID Here]

### Question 1: Organizational Structures and Management Roles

Requirement: Read each case study carefully and identify the appropriate category (Sole Trader, Private Limited Company, Quality Management, Project Manager, Corporate Manager).

| Case Study No. | Case Study Core Details | Identified Category |
|---|---|---|
| Case Study 1 | Ahmed independently operates a small computer repair shop, making all business decisions and holding unlimited liability over personal assets. | Sole Trader |
| Case Study 2 | TechVision Ltd. is an incorporated software company with private shareholders that cannot offer shares to the general public. | Private Limited Company |
| Case Study 3 | A department at GlobalTech Solutions checks software products, routinely inspecting applications to meet agreed quality benchmarks. | Quality Management |
| Case Study 4 | A manager at SoftCore Technologies plans a new system, monitoring project progress, resources, timelines, and budgets. | Project Manager |
| Case Study 5 | A senior manager at DigitalFuture Corporation outlines long-term strategy and oversees overall | Corporate Manager |

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|---|---|---|
| | inter-departmental performance. | |

## Question 2: Professional Ethics and Code of Ethics

Requirement: Read each case study carefully and identify the primary ethical issue demonstrated (Software Risks, Fairness or Discrimination, Conflicts of Interest, Privacy, Unauthorized Access to Computer Systems).

| Case Study No. | Ethical Breach Context | Identified Ethical Issue |
|---|---|---|
| Case Study 1 | Management knowingly releases a flawed AI patient monitoring tool that occasionally misses critical emergency alerts. | Software Risks |
| Case Study 2 | An automated hiring tool consistently screens out qualified female applicants due to algorithmically embedded gender bias. | Fairness or Discrimination |
| Case Study 3 | An engineer evaluates government bids and hiddenly selects their brother's company despite it costing more. | Conflicts of Interest |
| Case Study 4 | A university provides identifiable student data to third-party advertisers without obtaining consent. | Privacy |
| Case Study 5 | An administrator uses a former employee's active credentials to nose around a restricted server without permission. | Unauthorized Access to Computer Systems |