

ETHICAL WORKGROUPS

FORM YOUR TEAM

ANNOUNCEMENTS

DUE DATES

Coming week

For case reporting 5 marks quiz.

PROJECT MANAGEMENT

Google Scholar

Web of science

SDL

ACM

GATHERING LITERATURE ON YOUR PROJECT

One slide reporting distribution of tasks
among the members including

Designing the project code of conduct

Literature review

Benchmarks for similar cases

Distribution of analysis tasks



PROFESSIONAL ETHICS

ABDEL MONIM ARTOLI

READING: CHAPTER 4 OF THE TEXTBOOK

OBJECTIVES

CONTENTS

Identify and address ethical issues in the profession

- What is a profession?
- Requirements for a profession

Describe mechanisms for ethical decision making

- Being an ethical professional
- Professional decision making

Judge on professional codes

- Professional and ethical responsibilities

Tutorial

- Case studies

MOTIVATING CASE STUDY

- A colleague of yours, named Beani owns a company in Riyadh Computer Complex in Ulaya. The company distributes a global security software which seems very expensive for individuals to buy. Recently, you have been a victim of many attempted and serious hacks. You contacted your colleague who reacted by providing you with a crack procedure for that software.
- Report if there is any ethical issue within this action.
- Justify, analyze and suggest solution for the issue.
- Discuss implications if a successful attack on your system has occur.
- Discuss pros and cons of alternative cheap and freeware solutions.

ARE YOU ONE OF THOSE WHO

Download materials from the internet

- Which type?
 - Document
 - software
 - Picture, ...etc.
 - privates
- Is it in the public domain?
- Freeware, shareware, licensed (site/single)
- copyright

use downloaded material

- plagiarism
 - Similarity reports
- piracy
- Copyright violation

Publish on www

- Social media
 - Documents
 - Opinions
 - Advertisements
 - Games
- Channels
Harmful sites

WHAT IS A PROFESSION?

- Evolved from being professed
=To announce a public declaration
- Webster dictionary:
 - a. a calling requiring specialized knowledge and often long and intensive academic preparation
 - b. a principal calling, vocation, or employment
 - c. the whole body of persons engaged in a calling

The Jobs Landscape in 2022

emerging
roles,
global
change
by 2022

133
Million

Top 10 Emerging

1. Data Analysts and Scientists
2. AI and Machine Learning Specialists
3. General and Operations Managers
4. Software and Applications Developers and Analysts
5. Sales and Marketing Professionals
6. Big Data Specialists
7. Digital Transformation Specialists
8. New Technology Specialists
9. Organisational Development Specialists
10. Information Technology Services

declining
roles,
global
change
by 2022

75
Million

Top 10 Declining

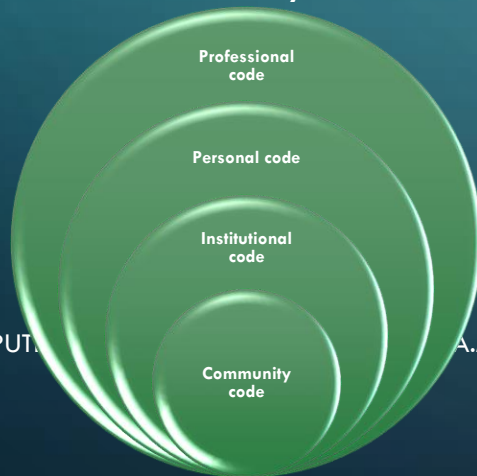
1. Data Entry Clerks
2. Accounting, Bookkeeping and Payroll Clerks
3. Administrative and Executive Secretaries
4. Assembly and Factory Workers
5. Client Information and Customer Service Workers
6. Business Services and Administration Managers
7. Accountants and Auditors
8. Material-Recording and Stock-Keeping Clerks
9. General and Operations Managers
10. Postal Service Clerks

Source: Future of Jobs Report 2018, World Economic Forum

FRAMEWORK

• Requirements

- High Skills and deep knowledge of the domain
- Autonomy in provider-client relationship
- Observance of 4 codes of conduct:
 - Professional Code
 - Personal code
 - Institutional code
 - Community code



• Supports

- Commitment
 - will
 - Do your best
 - What, who and when
 - Open and public
 - negotiate
 - advance notice
- Integrity
 - Vision
 - Love
 - commitment
- Responsibility
 - Roles
 - Tasks
 - Actions
 - Product, service and sequential
- Accountability
 - Measurable outcomes
 - Performance standards
 - Conseqnt Incentives and penalties

• Deliverables:

- Service
- product

MAKING AN ETHICAL PROFESSIONAL

1. Formal Education

1. Targeted and incremental
 - Proper use, no harm, formal courses, direct penalties, etc.

2. Licensing

1. Universities and state
2. Professional organizations

3. Professional codes of conduct

- To create and maintain public good image about the profession
- Address: Moral and legal standards, Professional–client relationship, Client advocacy, Professional–public relationships, Sanction mechanics, Confidentiality Assessment, Compliance, competence
- Means of enforcement, reporting, hearing, sanctions, appeals

• 4. Dilemmas in Professional decision making

- Mapping input premises with values to an output.
- $F(\text{premises}(\text{values})) = D$
 - E.g. Shall I walk to a mall or take a car?
 - Premises: time, cost, gas, parking, etc.
 - Values? Save time, need parking, etc
- Conflicts
- Changing technology
- Incomplete or misleading information

AVOIDING GUILT

- Identify and examine ethically relevant issues
- Determine affected parties and their interests
- Decide course of action alternatives
- Consider probable consequences
- Consult
- Evaluate values, bias, self interest, etc
- Be prepared
 - Assume responsibility
 - Reconsider
 - evaluate
- Professionalism and Ethical Responsibilities
 - Whistle-blowing
 - Harassment and discrimination
 - Ethical and moral implications

FURTHER READINGS

- Chapter 4 of the book
 - Ethical and social issues in the information age, 5th edition by J. Kizza
- IEEE code of ethics
- Saudi codes of ethics
 - Aramco
 - Sabic
 - Telecommunication
 - Banks
 - Al-Elm
 - STC
 - National telecommunication
 - Communications and Information Technology commission

QUESTIONS

- Define professionalism
- List two elements of professionalism
- Discuss the benefits of licensing in software trade
- Describe how ethical decisions are made
- Before whistle-blowing, what would you do to minimize the consequent risk.
- Compare between codes of professional ethics for two Saudi organizations from your p.o.v. to help you before applying for a job.