01 – Introduction to Software Engineering

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Textbook: Software Engineering, by Ian Sommerville

About me

Dr. Essam Eliwa

- Assistant Professor

- MSc and PhD - The University of Nottingham, UK.

- 20+ years of teaching experience.

  - MIU, University of Nottingham, Arab Academy, and ITI

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Team project

▶ Groups of 5

▶ General **Web-based/ Desktop** Applications

    ▶ Real customer

    ▶ Live production (Publishing the web application online)

▶ Grade distribution: **40% distributed as follow**

    ▶ Project Design: 5%

    ▶ Project Implementation: 5%

    ▶ A software requirements specification (SRS) document : 10%

    ▶ A software design document (SDD) : 5%

    ▶ Testing and User Guide : 5%

    ▶ Discussion: 10%

Project Documents

▶ Proposal document.

▶ Software Requirements Specification document (SRS).

▶ Software Design Document (SDD).

▶ Testing and User Guide documents.

Overleaf

▶ Must use LaTeX editor, the following tool is recommended as a LaTex IDE: https://www.overleaf.com/

▶ You must read and apply the following tutorial: https://www.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes

Recommended collaboration tools

▶ Version control using [Git](#) and [GitHub](#)

▶ Project Management Tool:

  ▶ https://clickup.com/

  ▶ https://trello.com/en

Project Timeline 1

Week 1
- Idea proposed
- Teams (5 students)

Week 3
- Idea Confirmed
- Proposal Document

Week 6
- Software Requiremnts Specification (SRS)
- Implementation: Completed Frontend + 20% Backend

Project Timeline 2

Week 9
- Testing Document

Week 10
- Software Design Document (SDD)

Final Discussion
- Final SRS, Testing Documents, and SDD
- Completed application