

## Goals and Planned Achievements

## **Lecture Objectives:**

- 1) Develop a persona for a project user. —
- Define the goals for a project using a purpose, advantage, and measurement technique
- 3) Define a set of constraints for a project
- Explain how one would estimate the cost of a software development project.

 MSOE is building a new online course submission system. The system will allow students to submit assignments for classes for grading by professors. The system will also allow submitted assignments to be viewed by prospective employers as a portfolio of student accomplishments. Department chairs can also use the system to review assignments for faculty promotion and contract renewal .The system will also allow assignments to be viewed by ABET evaluators.

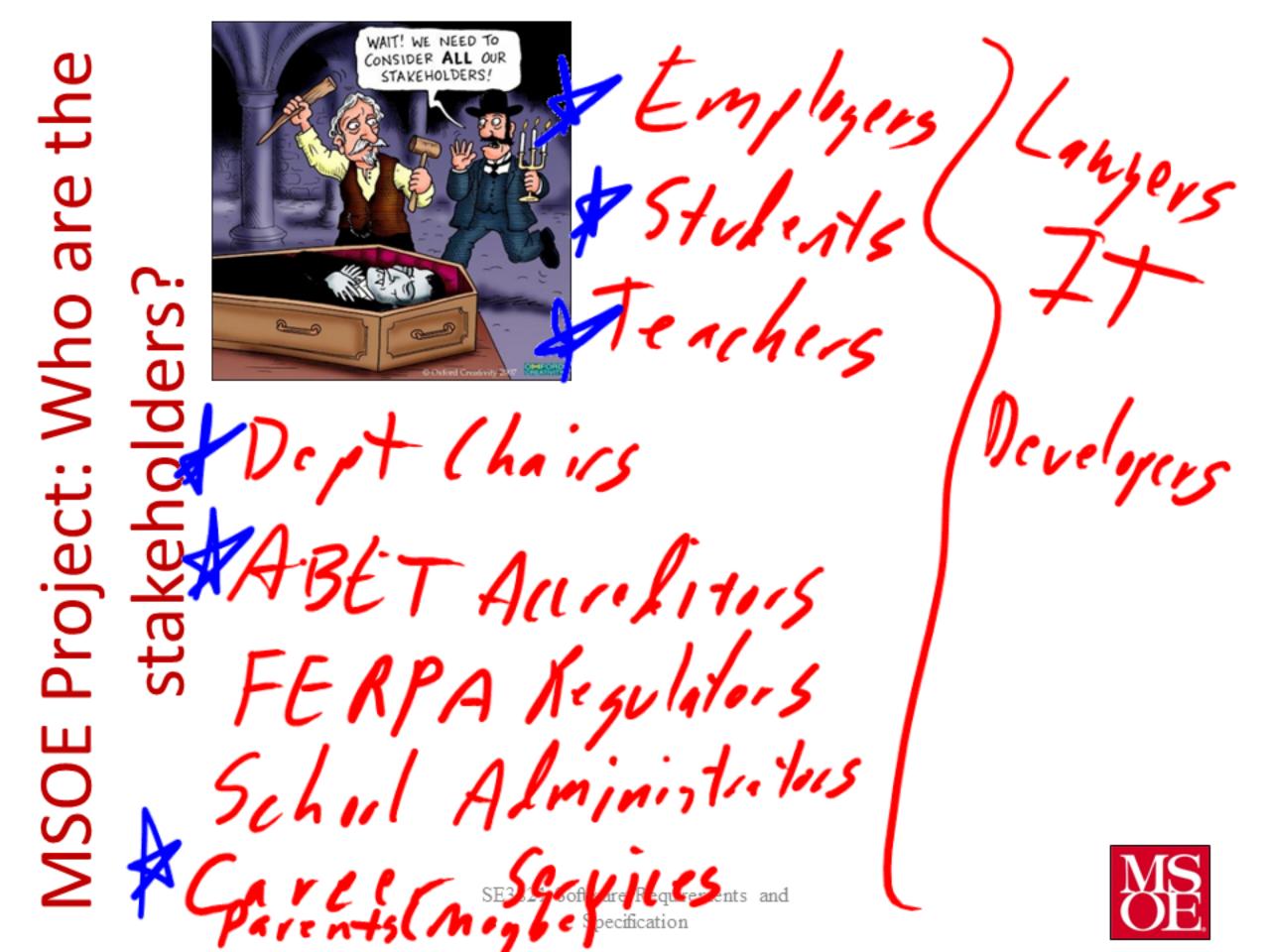


 What term from the previous slide should go in the glossary for this project?

Side

ABET => Accolilation







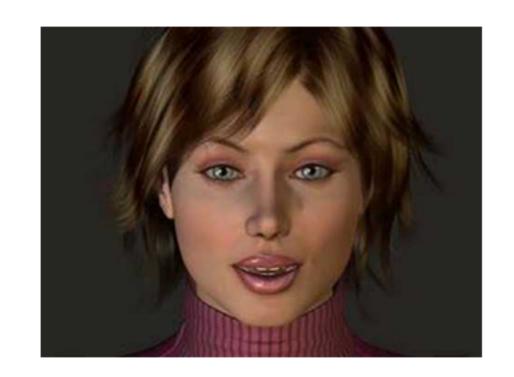
 The people who are hands on with the system

Users



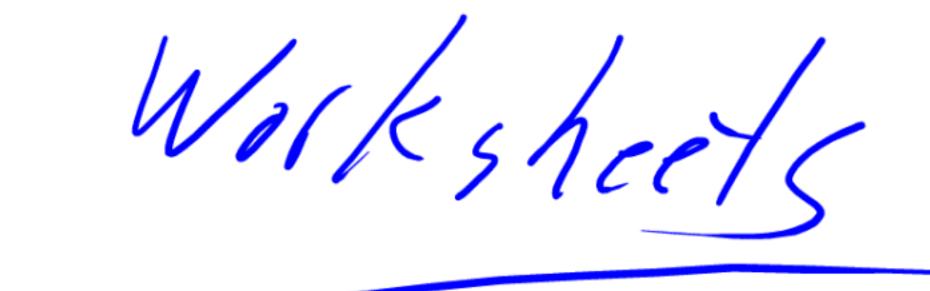


 A virtual person archetypical of most of your users





What might a user's persona be?





 What benefit does the project deliver to the stakeholder?

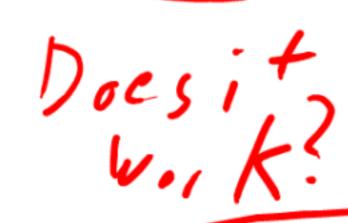
Essentially, the highest level requirement



Should be written clearly and unambiguously

Should be written in a measurable manner to quantify the benefits

- Expressed as
  - Purpose
  - Advantage
    - What will the purpose achieve
  - Measurement
    - How might you measure the advantage





Purpose: The MSOE OnTrack system will allow the program director to accurately estimate the enrollment in Software Engineering courses. Advantage: To reduce the number of students who are closed out of courses and the number of sections cancelled due to insufficient enrollment Measurement: The number of students who are unable to schedule their desired courses shall be less than 5% per quarter.

## What

Purpose: Make stulents happier



W

Purpose: Increase to availabily et stolents work. allow, a complete Putfilis to be developed. Raise placement 1stes. 0 E Me syrement: Att stolents will be placed.



Pupise: Arbure time for 11. tessins to return 455 isments broject Better Stutent achievement Messument: All assignments returned by profs in 2 Wir king Lug,
SE3821 Sitware Requirements and

- Restrictions on the requirements that can eventually appear in the final document
  - A mechanism for providing guidance on where to focus effort during the requirements gathering exercise.
- Examples
  - System must run on a tablet PC
  - System must run under Windows 3.1
- Confined System must interface with Blackboard





 What constraints might there be on such a system?

Must interface w/ MSOF LDAP System. => Most interfacew/Whithey



- Many methods
  - Input and output count
  - Number of business events
  - Function Point counting



Especially Appendix C





$$EffortInStaffMonths = (\frac{functionPoints}{150}) * functionPoints^{0.4}$$

$$\uparrow$$

\$10,000 per 51,44 monts

