Agenda

1. Objectives

2. Recap of Estimating Process (10 min)

3. Estimating Exercise (45 min)

   ▪ Perform estimates (30 min)

   ▪ Compare estimates & discuss outcomes (15 min)

4. Conclusion/Wrap Up (5 min)

Objectives

By the conclusion of this workshop, participants will:

- Gain hands-on practice estimating *effort*

- Increase understanding of the estimating process

- Work as a team

Recap of the Estimating Process

Factors Impacting Estimating

- Historical information/data

- Experience Level

- Learning Curve

- Requirements/Specifications

Iterative Process

Scoping

Define overall scope/Hi-level requirements

WBS

Breakdown work into components

T-shirt Sizing

Define sizing estimate ranges

Estimate

Repeat as requirements/ stories are further defined

Baseline Estimate

Compile estimates

Decomposing the work is a critical step!

Traditional Estimating Techniques

Technique	Description
Analogous (Top-Down)	Using historical data from a similar activity or project to estimate duration or cost (i.e. ball park estimate)
Three-Point (Triangular)	3 estimates based on Most Likely, Optimistic, and Pessimistic using formula tE=(tO+tM+tP)/3
Bottom-Up	Aggregate of lower level component estimates (of WBS) to estimate duration or cost

You will use the Bottom-Up estimating technique for this exercise

Bottom-Up Sample

Epic: Payment Processing (Total hrs. 15)

Features:

Payment Entry page (8 hrs.)

Task a (3 hrs.)

Task b (5 hrs.)

Payment Transmission (5 hrs.)

Payment Confirmation (2 hrs)

Estimating Exercise

➢ You will be divided into 2 teams in separate break out rooms.

➢ Each team will work together to estimate the effort (i.e. hours) for the scope/requirements provided.

➢ Development environment will be what AS currently uses.

➢ Feel free to use Excel as tool to break down the work with estimates and select who will be the scribe.

➢ Remember this is your 1st initial estimate you will present to the customer as part of the proposal to win their business! (and you are *basing it on what is known at this point* so please avoid over-analyzing ☺).

➢ At the end of the **30 min.** timeframe, we will review each team's estimates and compare.

Case Study Overview

The Star Movie Theatre has hired your team to build a new online ticketing system. Your task is to provide an <u>estimate of effort</u> from the requirements provided.

- Online system accessible by the theatre's *existing* website (mobile friendly in scope)

- User has option to sign in as guest to purchase movie ticket(s) OR create account

- Your team must provide effort estimates as part of proposal to bid on this project

- *See high- level requirements on the next slide*

High-level Requirements

Features	Requirements
Guest or Customer Account	• Customers may purchase as a 'guest' or through their customer account • Customer Account allows user to view their transaction history, save payment info & select movie genre preferences
Select Movie & Showtime	• Select from currently available movies and showtimes • Reserve soon to be released movie and showtimes
Select Ticket	• Option to purchase as guest or sign into account • Display "Your Cart" purchases • Select quantity (Max. 10 tickets per transaction)
Select Seats	• Seating chart of theatre displays what is available, sold, wheelchair accessible, etc.
Payment	• Enter payment (credit card only) info
Reports	• Reports for internal management usage (i.e. # of ticket sales per day)

Conclusion/Wrap Up

Conclusion/Wrap Up

- Any further questions?

- This presentation will be available on the AS Teams site

Thank you for participating!