

SER516

Software Agility:

Project and Process Management

Lecture 18. Midterm Review

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Office Hours: By appointment

Proctoring

<https://youtu.be/XuX8WoAycs>

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Syllabus

Modules

Discussions

Assignments

Quizzes

Grades

Inbox

Help

▼ Assignment Quizzes

Quiz 01

Closed | Due Feb 4 at 11:59pm | 100 pts | 10 Questions

Quiz 02

Closed | Due Mar 18 at 11:59pm | 100 pts | 20 Questions



Midterm Exam - Requires Respondus LockDown Browser + Webcam

Not available until Apr 2 | Due Apr 2 at 4:15pm | 100 pts | 20 Questions



Sample Exam - Requires Respondus LockDown Browser + Webcam

Available until Apr 2 | Due Apr 2 at 4:15pm | 1 Question

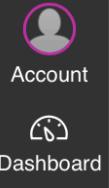
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≡ 2020Spring-P-CSE240-23004 > Quizzes

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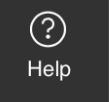
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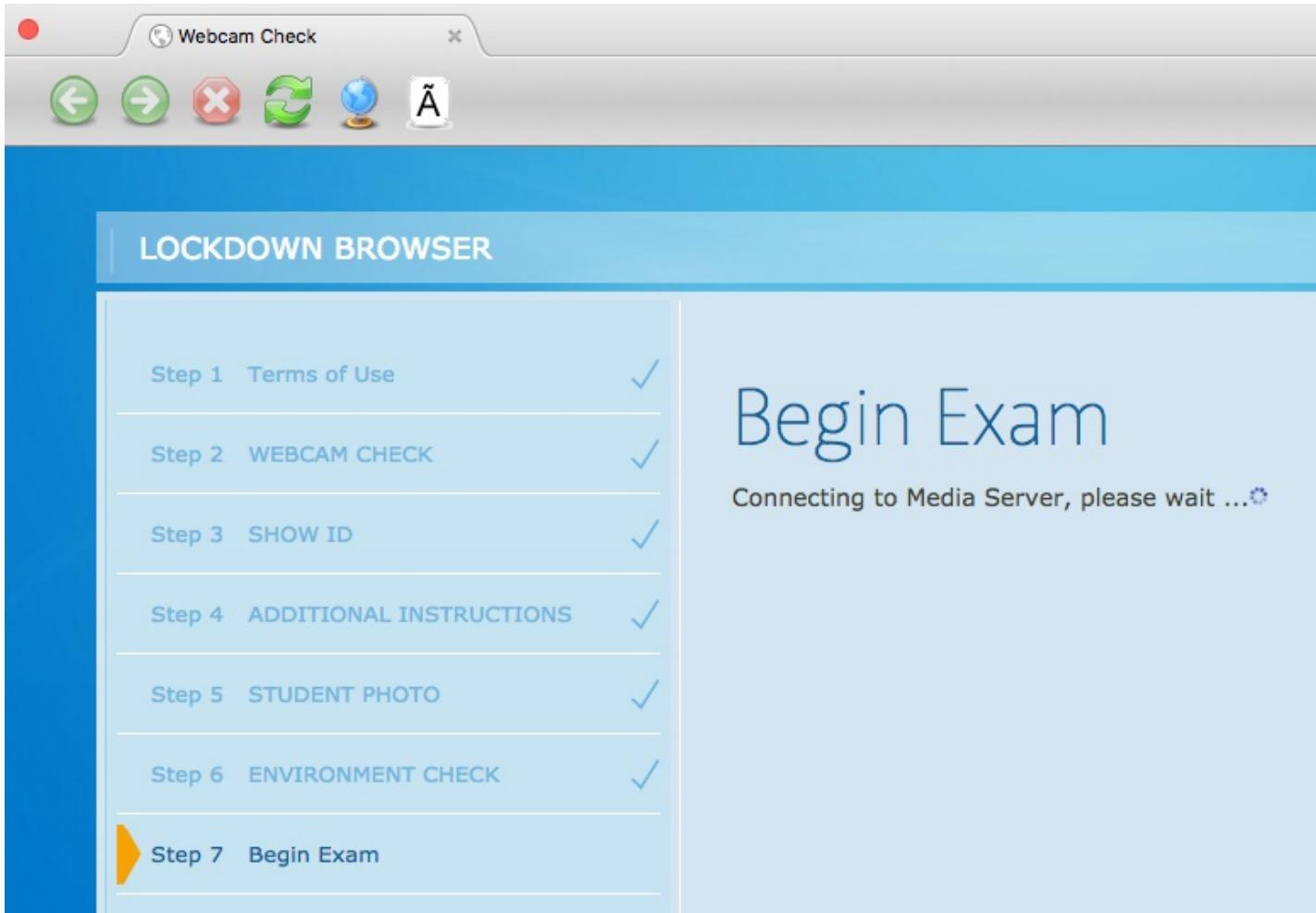


Respondus LockDown Browser Required

This quiz requires Respondus LockDown Browser. Please launch Respondus LockDown Browser to take this quiz or view your quiz results.

If you have not already installed the browser, please download it from here: [\[Download Respondus LockDown Browser\]](#) ↗

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The screenshot shows the Lockdown Browser interface. At the top, there is a toolbar with icons for back, forward, stop, refresh, and a globe. The title bar says "Webcam Check". Below the toolbar, a blue header bar says "LOCKDOWN BROWSER". On the left, a sidebar lists steps with checkboxes:

- Step 1 Terms of Use ✓
- Step 2 WEBCAM CHECK ✓
- Step 3 SHOW ID ✓
- Step 4 ADDITIONAL INSTRUCTIONS ✓
- Step 5 STUDENT PHOTO ✓
- Step 6 ENVIRONMENT CHECK ✓
- Step 7 Begin Exam (highlighted with an orange arrow icon)

The main content area on the right says "Begin Exam" and "Connecting to Media Server, please wait ...".

Agenda

- Sample Exam is available. Test your system ASAP
- Midterm Exam available April 2 from **4:30 pm to 5:45 pm**

Key ideas:

- a) Show your environment.
- b) It is a CLOSED BOOK exam. Do not use any material
- c) Scratch paper is allowed. Empty White Paper. Show it on camera when you show your environment!

Review

*types.Operator):
 X mirror to the selected
 select.mirror_mirror_x"*

Note

The following is a summary of the most relevant ideas.

But, the exam is not limited to these,

i.e.,

The following IS NOT a comprehensive list

Review

- Background of process models (5); agile vs plan-based; what is and what is not “Agile”; agile manifesto; When to use agile and when is not a “good” option? Factors to be reviewed **[Somerville 2,3]**
- Requirement vs Task; Product backlog; sprint; agile process, ceremonies, and roles; burndown chart **[Somerville 3,4]**
- Agile principles (7) **[Rubin 3]**
- People factors (3); clean coding; clean code principles; **[Martin 1]**
- PBI; user story; epics; features; themes; **[Rubin 5]**

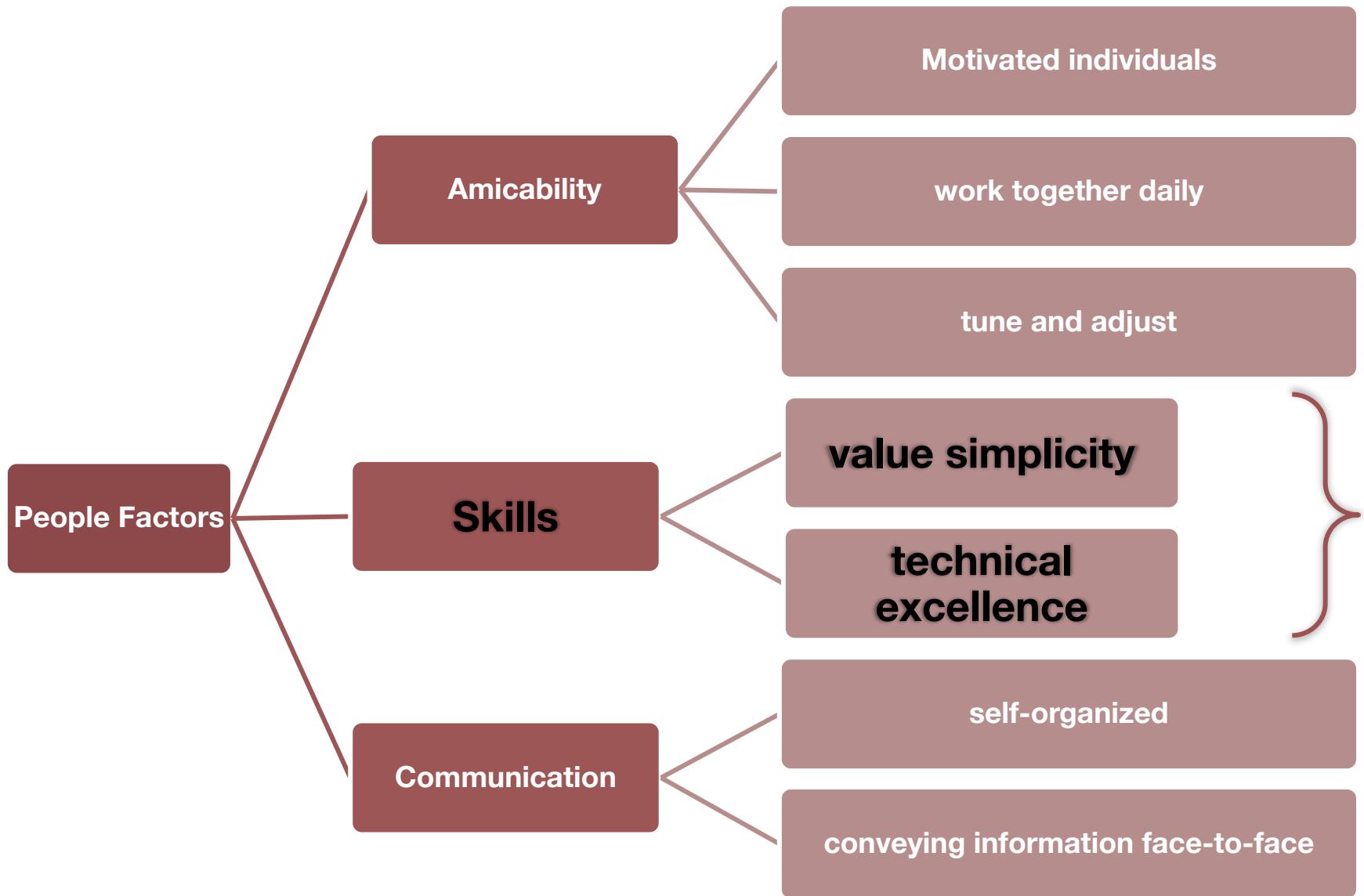
Review

- storyboard; epic vs story; INVEST; common errors **[Rubin 5,6]**
- Product backlog; DEEP; Planning Poker; Grooming; **[Rubin 6]**
- Sprint; Sprint characteristics; sprint planning; sprint backlog; **[Rubin 4]**
- KISS, DRY, Readable, Coding Guidelines for Java **[Java]**
- Estimation; Velocity; **[Rubin 7]**

Agile Principles

1. satisfy the customer
2. Working software.
3. motivated individuals that work together daily
4. self-organizing teams.
5. face-to-face conversation.
6. Simplicity - good design.
7. Team -tunes and adjusts.

People Factors



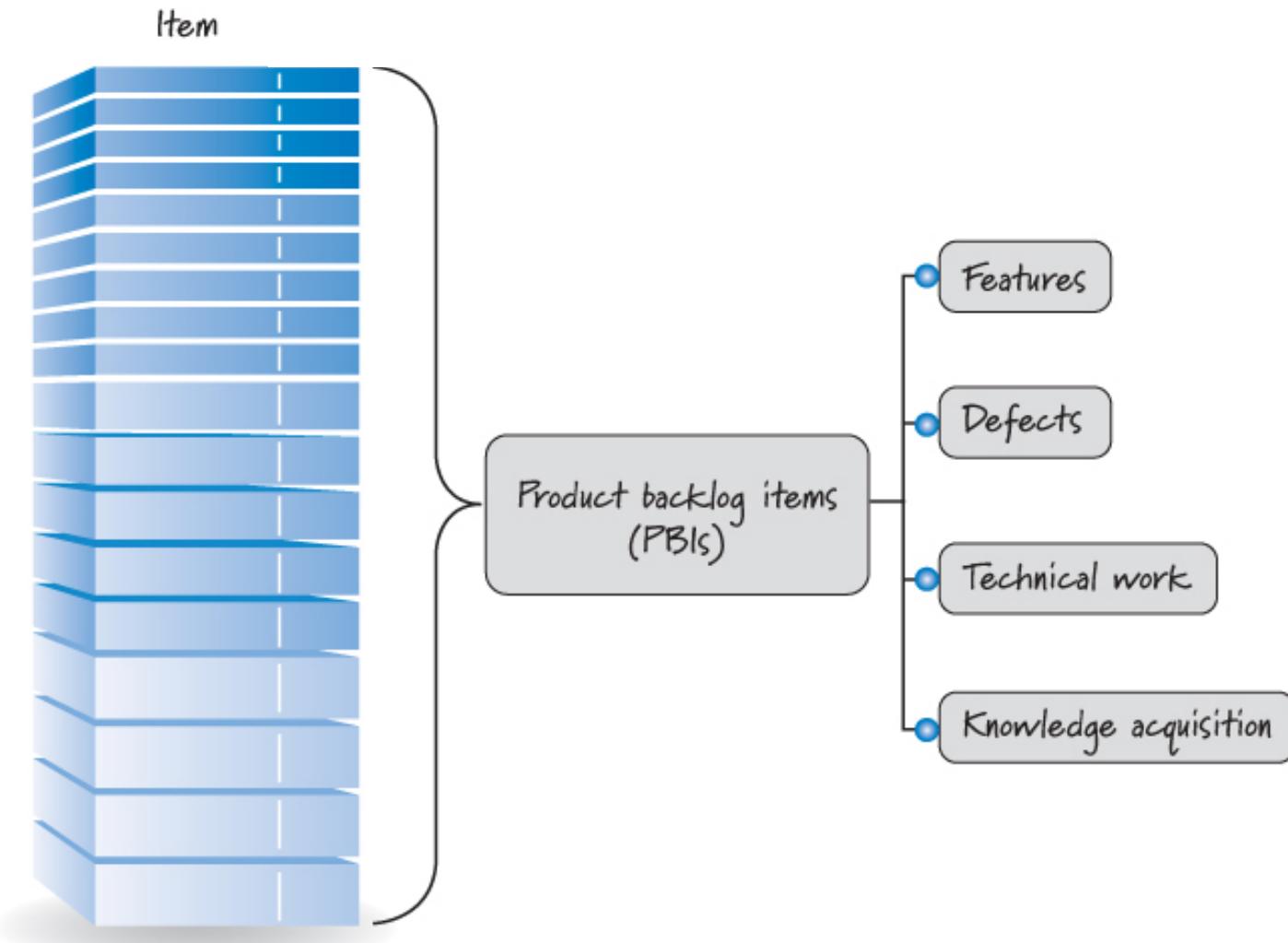
INVEST in good stories

- **I**ndependent – loosely coupled with one another
- **N**egotiable – Stories are what and why , not how (99%).
- **V**aluable – for the customer!
- **E**stimatable – Effort/Cost of design, build, and test.
- **S**mall (sized appropriately)
- **T**estable – pass or fail

Common Errors

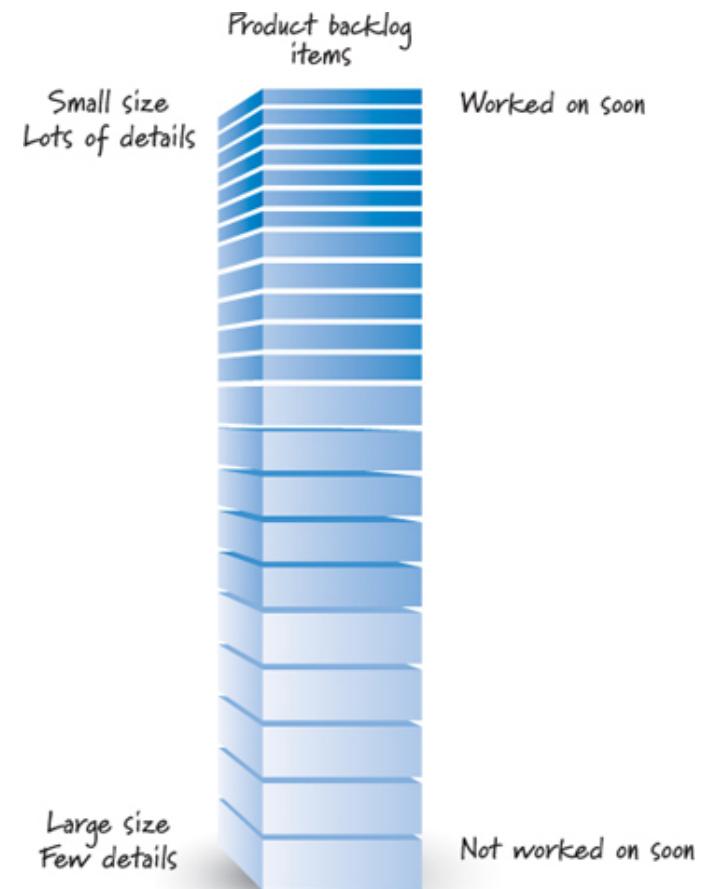
- *“As a student, I need to **save** my quiz **so that** later I can **review**, **print**, or **email** it for other uses.*
- *As a student, I need to **review**, **print**, and **email** my quizzes so that I can request a revision or study.*
- *As a developer, I want to create a server socket so that the client can connect to the server.*
- *As a tester, I want to have the server finished so that when the client is completed, I can test it.*
- *As a student, I want to see each question in my quiz displayed clearly so that I can quickly identify my errors.*

PBI



Key Characteristics (DEEP)

- Detailed Appropriately
- Emergent
- Estimated
- Prioritized



Clean Code Principles

1. Readability

e.g. Coding **guidelines**.

2. Simplification and Specification

e.g. **KISS (Keep It Simple by K. Johnson)**.

3. Decoupling

4. Avoid Code Bloat

e.g. **DRY (Do not Repeat Yourself)**.

```
    mirror_mod = modifier_obj
    mirror_mod.mirror_object = mirror_object
    if operation == "MIRROR_X":
        mirror_mod.use_x = True
        mirror_mod.use_y = False
        mirror_mod.use_z = False
    if operation == "MIRROR_Y":
        mirror_mod.use_x = False
        mirror_mod.use_y = True
        mirror_mod.use_z = False
    if operation == "MIRROR_Z":
        mirror_mod.use_x = False
        mirror_mod.use_y = False
        mirror_mod.use_z = True
```

```
selection at the end -add
```

```
    ob.select= 1
    mirror_ob.select=1
    bpy.context.scene.objects.active = mirror_ob
    ("Selected" + str(modifier_index))
```

SER516 – Software Agility

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OPERATOR Spring 2018

Disclaimer. These slides can only be used as study material for the SER516 course at ASU.

They cannot be distributed or used for another purpose.