**ITE721 Workshop - Week 4**

Student Number \_\_\_\_\_\_\_\_\_\_\_\_\_

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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# Part A: Lecture Review Questions

1. What are user requirements and system requirements?

User re quirements are statements in natural language plus diagrams of the services the system provides and its operational constaints. Written for customers.

System requirements is a structured document setting out detailed descriptions of the system’s functions, services and operational constraints. Defines what should be implemented so may be part of a contract between client and contractor.

2. What is the distinction between functional and non-functional requirements?

Functional requirements are statements of services the system should provide, how the system should react to particular inputs and how the system should behave in p-articular situations

Non-functional requirements are constraints on the services or functions offered by the system such as timing constraints, constraints on the development process, standards, etc.

3. List 3 types of non-functional requirement?

Efficiency requirements, dependability requirements, and security requirements.

4. What are the possible problems of test-first development?

Shortcuts being taken in the testing phase, it is difficult to make a test for the software ‘complete’

5. Give 5 reasons why eliciting requirements is difficult?

- Stakeholders don’t know what they want

- Stakeholders express requirements in their own terms

- Different stakeholders may have conflicting requirements

- Organisational and political factors may influence the system requirements

- The requirements change during the analysis process. New stakeholders may emerge and the business environment may change

6. What is ethnography and how is it used in requirements elicitation?

Ethnography is the scientific description of peoples and cultures with their customs, habits, and mutual differences. Ethnography is used in requirements elicitation by having a social scientist spend a considerable amount of time observing and analysing how people actually work, and this can be effective for understanding existing processes

7. What information should be included in a scenario.

- A description of the starting situation (Initial assumption)

- A description of the normal flow of events

- A description of what can go wrong

- Information about other concurrent activities

- A description of the state when the scenario finishes

# Part B: Team Project Activities - SCRUM

**[ Instruction from last week WS ]**

**Prepare SCRUM process with your project:**

* Your team must run SCRUM for at least one week from today!

1. Assign Roles

Kris Leatherby – Scrum Master

Liam Bargh – Developer

Jack Kelly – Developer

Wade Anderson - Developer

2. Define Product Backlog

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Story | Estimation (days) | Priority | Status | Acceptance Criteria |
| 1 | As a quiz master I want to create questions | 3 | 1 | In progress | app with questions displaying |
| 2 | As a quiz master I want to assign answers to  questions | 2 | 2 | In progress | Questions each must have an answer |
| 3 | As a quiz master I want to add teams to a quiz  Event |  | ??? | Evaluating | App accepting connections from teams |
| 4 | As a quiz master I want to order teams  automatically | 1 | 9 |  | App ordering teams on click |
| 5 | As a quiz master I want to score teams | 2 | 8 |  | App storing scores and updating scores |
| 6 | As a quiz team I want to join a quiz | 3 | 5 | In progress | App connecting to quiz |
| 7 | As a quiz master I want to receive answers | 2 | 3 |  | App receiving team inputs |
| 8 | As a quiz master I want to mark answers | 2 | 4 |  | App window marking answers |
| 9 | As a quiz team I want to receive questions | 2 | 6 |  | App receiving questions |
| 10 | As a quiz team I want to answer questions | 2 | 7 | In progress | App sending answer |
| 11 | As a quiz team I want to see team scores | 1 | 10 |  | App displaying team scores |

3.Sprint Planning

The team allocations of work for the next sprint

|  |  |
| --- | --- |
| Team member | User story (ID) |
| Kris Leatherby | 7 |
| Liam Bargh | 1, 2 |
| Wade Anderson | 7 |
| Jack Kelly | 1, 2 |

4. Sprint Backlog

|  |  |  |
| --- | --- | --- |
| User story (ID) | User story | Priority |
| 1 | As a quiz master I want to create questions | 1 |
| 2 | As a quiz master I want to assign answers to  questions | 2 |
| 7 | As a quiz master I want to receive answers | 3 |

5. 1 Sprint for 1 week

6. Finished Work - Potentially Shippable Increment (if applicable)

We didn’t manage to complete any stories in the last sprint fully

7. Sprint Review

What has been done:

Large portions of all stories in the sprint backlog have been completed but nothing to full completion

What has not been done:

Each user story in the sprint backlog was not quite completed so we have no prototypes to show for our sprint

8. Sprint Retrospective

What worked well?

* Scrum team completed a fairly large portion of the work in the sprint backlog
* Product backlog covers all of the work in scope

What could be improved?

* Spread team over fewer stories to ensure completed requirement prototypes
* Review and refine priorities
* Daily scrum meetings
* Velocity refinement

What will we commit to do in the next sprint?

Finish the user stories that were begun in the last sprint that have not dropped in priority

**Maximum 10mins Presentation of your group’s SCRUM process**

* Today’s Presentation: SCRUM activity result

**PT Order (from 10.00am):**

*Team A – Benjamin Barton, Finlay, Pam, Thomas Pickford*

*Team B – Courtney, Liam Johnson, Edward, Kevin*

*Team C – Holly, Jordan, Solomon*

*Team D – Allen, Douglas, Fred*

*Team E – Jack, Kris, Liam Bargh, Wade*

*Team F – Liam Berry, Thomas Wallace, Tim*

*Team G – Brian, Debby, Henri, Ricky*

*Team H – Ben Williams, Elijah, Mark*

# Part C: Team Project Activities – Prepare for the next WS

**1. Project Scope Statement and PBB with Gantt Chart**

**2. JAD Session** (Select a JAD facilitator for your group)

**Liam Bargh JAD Facilitator**

***Submit Your Works before you leave via email.***

*Part A - Individual*

*Part B - As a group*