Introduction

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Workshop 1: Introduction to Software Development

UTS
UNIVERSITY OF TECHNOLOGY SYDNEY

Welcome !

10 Mins

Introduction

Ask the students....

Questions:

1. What is your name?

2. What is your experience with software development?

3. What do you do other than study (e.g. hobby, work)?

Administration:

1. Bring your own device (laptop)

2. Group work ethics (e.g. being responsible, respectful)

3. Mobile use

4. Break

Topics

- Subject overview

- Professional software development

- Model driven software development

- Software development process

- Software development roles

- Agile software development

- Software development project

- Assessments

Q&A: Subject overview

- Learning journey

- Preparation

- Subject objectives

- Teaching and learning strategies

- Key topics and workshops

- Assessments

- Recommended book

- Teaching team

10 Mins

**See subject overview video
See subject outline**

Activity: Professional software development

5 Mins

Individual Software Development

Developed by individuals
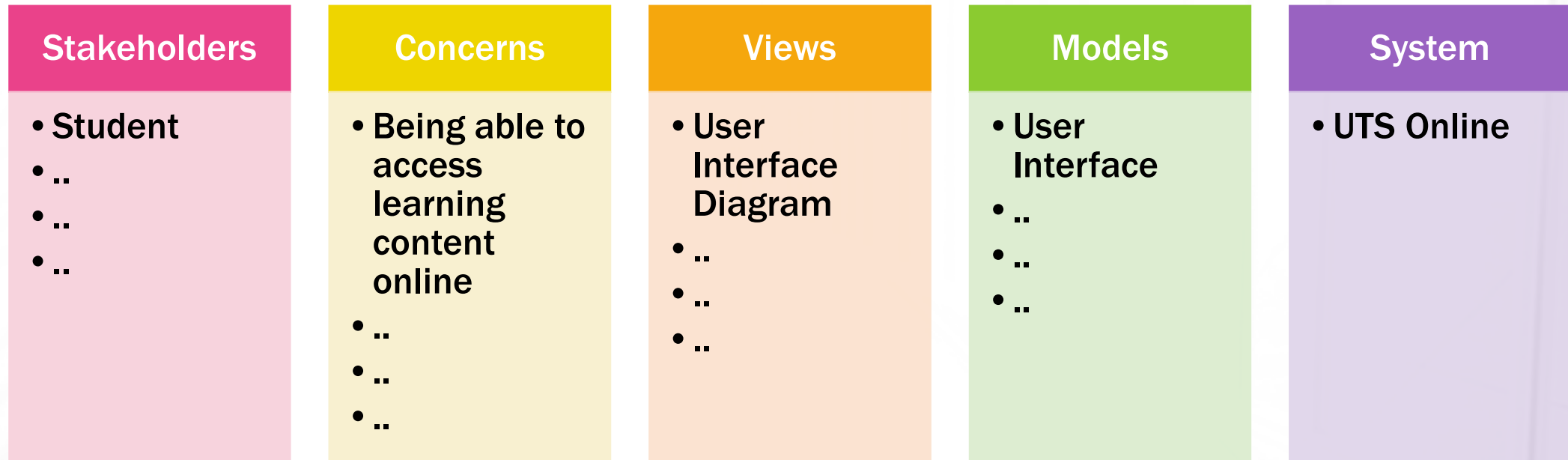
Professional Software Development

Developed by team
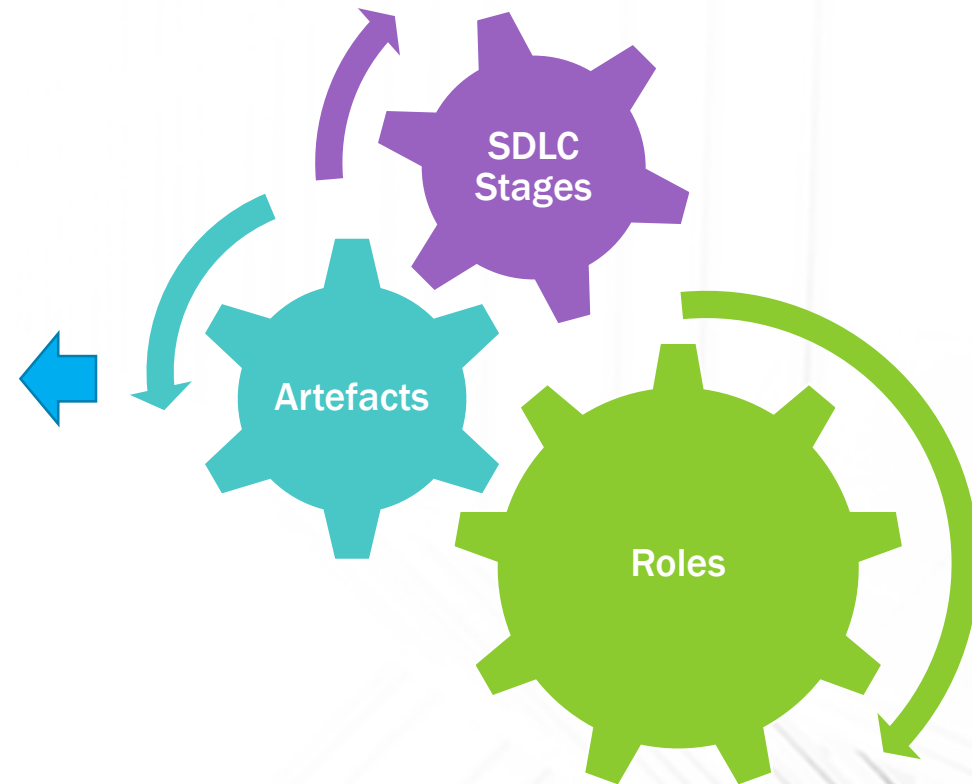
Activity: Model driven software development

10 Mins

Stakeholders	Concerns	Views	Models	System
• Student • .. • .. • ..	• Being able to access learning content online • .. • .. • ..	• User Interface Diagram • .. • .. • ..	• User Interface • .. • .. • ..	• UTS Online

Activity: Software development process

20 Mins

#	Stages	Artefacts	Roles
	Planning	Project Plan	Project Manager

SDLC Stages

Artefacts

Roles

Activity: Agile software development process

20 Mins

Initiate

#	Release 0	Release 1	Release n
	Iteration 0	Iteration 0	..
	Iteration 1	Iteration 1	

Close

Agile Project

Releases

Iterations
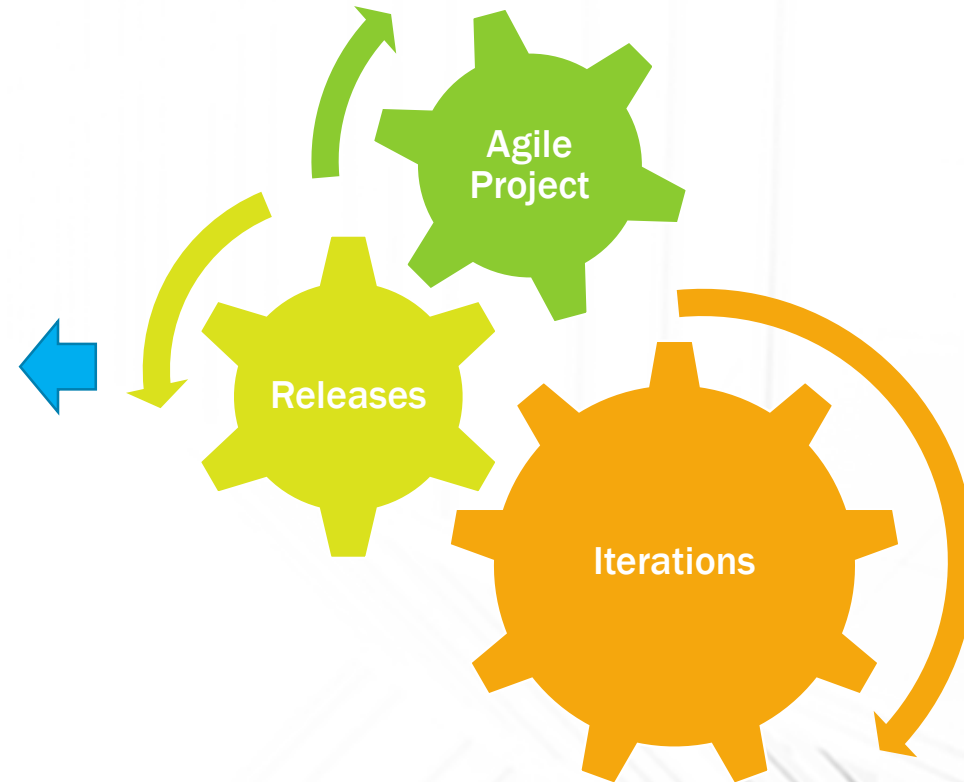
Q&A: Agile software development

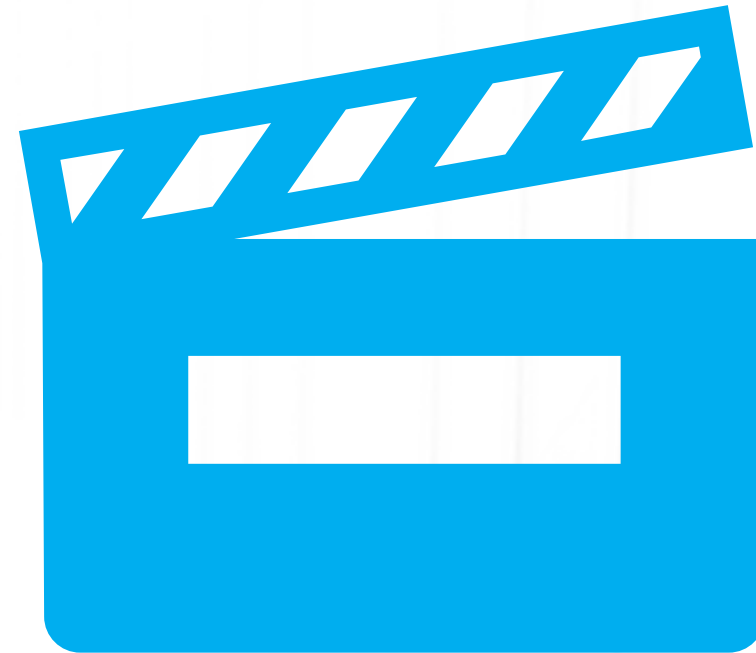**Agile software development methods - videos**

Scrum

XP

Lean

Kanban

5 Mins

Source: See UTS Online for the video links

Agile Methods: An evaluation of the degree of agility in six agile methods and its applicability for method engineering by A Qumer, B Henderson-Sellers. Information and software technology 50 (4), 280-295.

Q&A: Software development project

How to balance the project scope, time, cost and quality
aspects of a software project?
Trade-offs?
Stakeholder preferences?

Cost

Quality

5 Mins

Resources

Scope

Risk

Time

Benefit

Project stack

Q&A: Assessments

- Software development Project
  - *Assessment Item 1 (30%) Due 11.55pm Friday 19 April 2019*
    - Project – Analysis, Planning, Architecture & Design; individual logbook
    - **Compulsory Showcase - see subject outline**

  - *Assessment Item 2 (50%) Due 11.55pm Friday 31 May 2019*
    - Project – Implementation & Testing; individual logbook
    - **Compulsory Showcase - see subject outline**

- Quizzes
  - *Assessment Item 3 (20%)*
  - Pre-workshop individual online quizzes (5) – **see subject outline**
  - Quiz 0 (mockup/ demo quiz) will not contribute to your grade
  - No makeup quizzes are allowed

- No Final Exam

10 Mins

Discuss Assignment 1 as a part of the overall software development project

Conclusion

- Individual vs professional software development

- Models and model driven software development

- Agile vs traditional software development

- Software development project

- Assessments: Assignment 1

- Next Week Workshop: Analysis & Planning