

Agile Software Practice

BSc (H) Software Systems Development — Year 4
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Student Info.

- Moodle:
 - URL: https://moodle.wit.ie/course/view.php?id=209284
 - Self-enrollment key: asp24
 - Used for assignment submissions only.
- Website:
 - URL: https://tutors.dev/course/agile-practice-setu-deise
 - All course material.
- Communications.
 - Slack workspace: https://agilesetu.slack.com/
 - Emails to @mail.wit.ie accounts.
- Contact hours: 1L (Online) + 3P
 - Emphasis on Practical skills.

Agenda

- Software requirements
- The Software Development Lifecycle (SDLC)
- Module's focus
- Assessment.

```
aws --version
aws-cli/2.2.28 Python/3.8.8 Darwin/19.6.0 exe/x86_64 prompt/off
diarmuidoconnor
v18.13.0

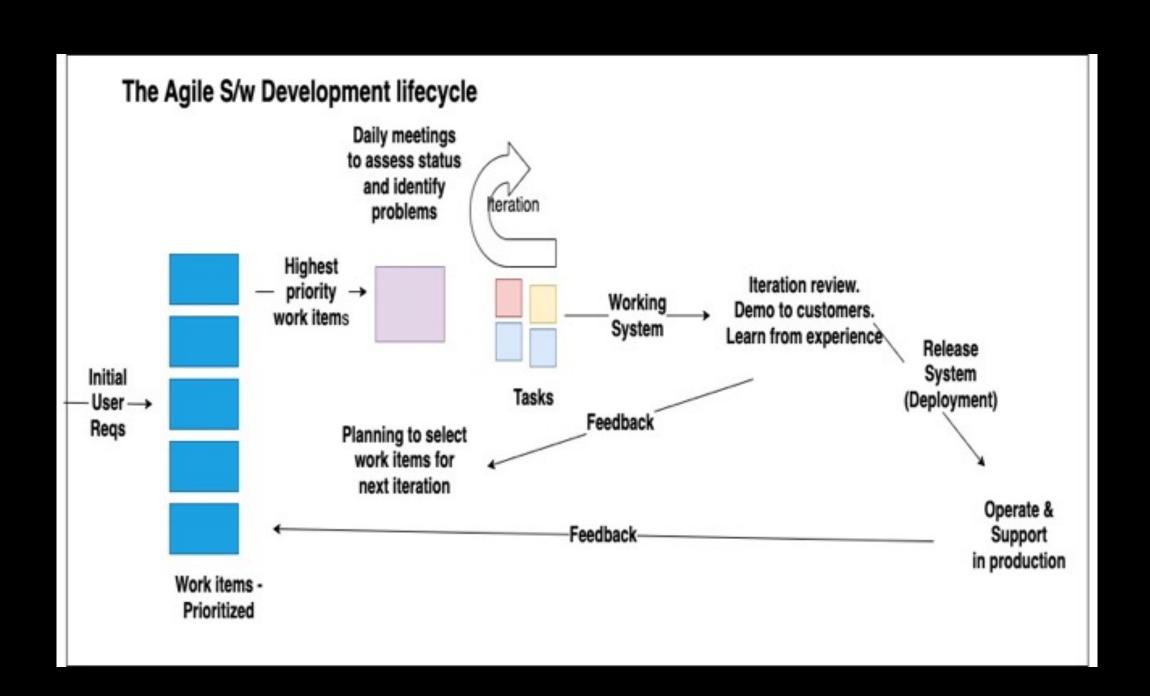
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```

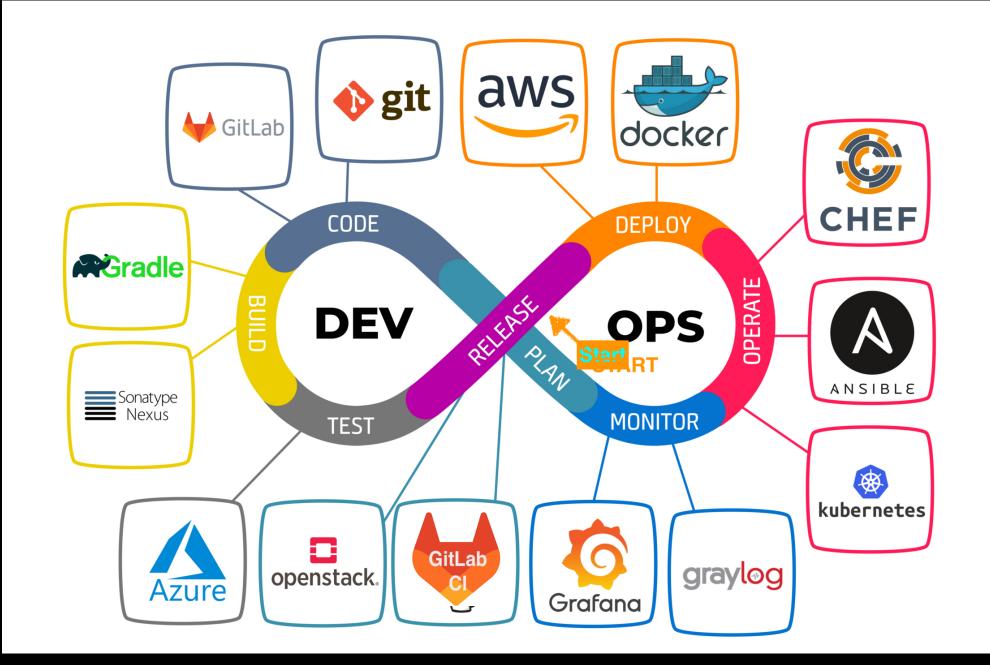
Software requirements

- Node.js Locally; ~v20.x; See
 https://nodejs.org/en/download/prebuilt-installer
- Docker Desktop Locally; See https://www.docker.com/get-started/
- The Git tool Locally; See https://www.atlassian.com/git/tutorials/install-git
 - May already be installed (\$ git ——help)
- VS Code editor Locally; See https://code.visualstudio.com/
- A GitHub account
- A GitLab account See https://gitlab.com/
- An AWS account See

The software development lifecycle (SDLC)

- Waterfall model.
- The Agile model.
 - An umbrella name
 - Scrum is the most popular instantiation.
 - Matured into the DevOps model.





Module's focus.

• Our focus is on the <u>tools</u> and <u>services</u> to support software created in a dynamic (i.e. agile) development environments.

- Tool chain:
 - Docker (Build, Package, Deploy).
 - GitLab CI (CI/CD Test → Release → Deploy)
 - Cypress, Mocha (Test).
 - AWS (Deploy).

Assessment

- 100% CA.
 - Lab work: 10%
 - Assignments: 2/3 40%.
 - End-of-semester lab-based exam: 50%.
 - All approximates