

Software Engineering

Class 2

Fall 2022

Group A & B & F

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Class SCHEDULE

- [Set 20 & 22] Class 1: Project KickOff.
- [Set 27 & 29] Class 2: Backlog check.
- [Oct 4 & 6] Class 3: Deliver Backlog. Sprint 0 Planning.
- [Oct 11 & 13] Bank holidays
- [Oct 18 & 20] Class 4: Deliver Demo S0. Retrospective Sprint 0. Sprint 1 Planning.
- [Oct 25 & 27] Class 5: Sprint 1 check [Q1]
- [Nov 1 & 3] Examen, no class.
- [Nov 8 & 10] Class 6: Deliver Demo S1. Retrospective Sprint 1
- [Nov 15 & 17] Class 7: Sprint 2 Planning [Q2]
- [Nov 22 & 24] Class 8: Sprint 2 check.
- [Nov 20 & Dec 01] Class 9: Deliver Demo S2. Retrospective Sprint 2. Sprint 3 Planning.
- [Dec 06 & 08] Bank holidays
- [Dec 14 & 16] Class 10: Deliver Final PRODUCT (S3).

PROJECT KICK-OFF

“The hardest single part of building a software system is deciding precisely what to build”

Fred Brooks. “The mythical Man-Month”

PROJECT KICK-OFF

- **PROJECT OBJECTIVE**
- **DEFINITION OF DONE (for each sprint):**
 - i. All code is checked in**
 - ii. All developer tests pass**
 - iii. All acceptance tests pass**
 - iv. Help/Doc text is written**
 - v. Product Owner accepted**

PRODUCT BACKLOG

What is inside a product Backlog:

- USER STORIES
- TECHNICAL REQUIREMENTS
- CODE SPIKES
- TECHNICAL DEBT
- BUGS

User stories: The USER POINT OF VIEW

- **Value statement**
- **Assumptions / Comments**
- **Acceptance criteria**

VALUE STATEMENT

Templates:

AS A (WHO)

Registered user / website visitor

I WANT TO (WHAT)

Change my password / subscribe to the mailing list

SO I CAN / IN ORDER TO (WHY)

Keep my account secure / get product updates through email

- I want to Login Using My User Name and Password --- WRONG!
- I want to access my account --- RIGHT!

- Examples: https://tech.gsa.gov/guides/user_story_example/
- Examples: https://tech.gsa.gov/guides/effective_user_stories/
- Examples: <http://www.agilemodeling.com/artifacts/userStory.htm>

ACCEPTANCE CRITERIA

- Each product backlog item or user story should have at least one acceptance criteria.
- Acceptance criteria is written before implementation.
- Each acceptance criteria is independently testable.
- Acceptance criteria must have a clear Pass / Fail result.
- It focuses on the end result – What. Not the solution approach – How.
- Include functional as well as non-functional criteria – when relevant.
- Examples: <https://zepel.io/agile/acceptance-criteria-for-user-stories/>
- Examples: <https://dzone.com/articles/acceptance-criteria-in-software-explanation-exampl>

BACKLOG REVIEW (I)

- Each product backlog item or user story should have at least one acceptance criteria.
- There are enough user stories to picture the system.
- You are already using Trello
- Product Backlog is DEEP
 - Detailed appropriately: To support conversation and commitment from the Team.
 - Emergent: Enabled to grow and be organized as new information arises.
 - Estimated: In terms of complexity
 - Prioritized: Ranked, value prioritized.

BACKLOG REVIEW (II)

- **Minimum Granularity of the Product Backlog – User Stories are of fine granularity (top 20%), User Stories of medium-grained requirements (next 20%), and Epics (remaining 60%)**
- **All work items are included in the backlog: user stories, bugs, design changes, technical debt...**
- **Estimation: The most relevant user stories are already estimated in “Story points” & value points to allow the appropriate Sprint planning**

FOR THE NEXT WEEK: Deliver backlog & Sprint Zero planning

1. End up with the backlog in Trello or GitHub Projects
2. Keep RUNNING the coordination meetings to manage the backlog
3. Keep using the tools: Slack, Github,...
4. Read and study the theory on how to plan a new Sprint