CLASS-1

Course Settings and Recap

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INT221 RECAP

- IT-Bangmod Kradan Kanban (ITB-Kradan Kanban, ITB-KK)
  — Release 1
  - There is only one Kradan (task board).
  - Development team is the owner of the Kradan.
  - No user authentication/authorization
  - MUST-HAVE : basic CRUD of tasks and statuses
  - SHOULD-HAVE : public URL, sort/filter tasks, limit tasks, validate input on client
  - COULD-HAVE : validate input on backend

Deliverables

- Working software on development server
  - Integration of frontend server, backend server, DB server (+proxy server)
  - Manual Testing + Test Tools (Cypress, Postman)
- Project management :
  - real-time task board
  - daily meeting recordings

Task Board Guideline

- Must-have lists : To-do, doing, done
- Assign member to task
  - during planning
  - when team member is available
  - may specify who is responsible for this task, who helps with brainstorm/review in info
  - may specify more than 1 member if work together
- Add related artefacts
  - +output, e.g. API specification
  - links or files

Daily Meeting

- Inspect progress toward the Sprint Goal
- 3 common questions
  - What have I done since last meeting?
  - What am I working on today?
  - What problems are preventing me from achieving this?
- Onsite/Virtual face-to-face meeting
  - each member turn on camera
  - should be less than 5 minutes each
  - at least 4 days/week
  - record the meeting for advisor to view later
    - store in agreed location, e.g. private meeting files section
    - named in appropriately, e.g. OR-1-daily-20240417.mp4

Team Work

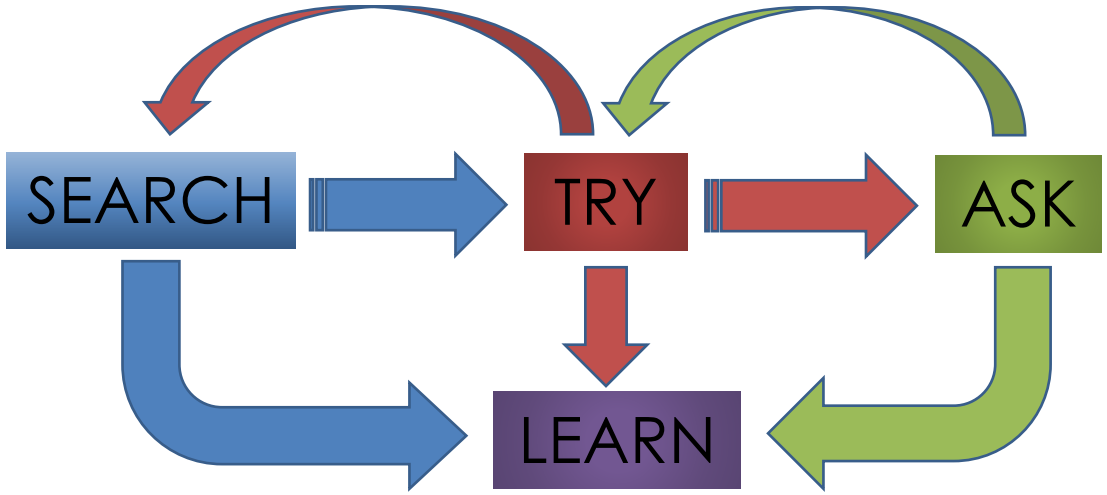
- Work together
- Avoid teams with individual roles
- Swarming : team members with available capacity gather to work on an item to finish what has already been started before moving ahead to start work on new items (PBI)
- Each team member should contribute to the project each week and thus must have development work

Pair Programming

- Code by one and review by another
- Better code
- Better design
- Promote collective ownership and sharing of knowledge/skills

Help / Support

- Yourself : study, search, try
  - aware of the amount of time spent
- Team : each should support other members
- Other teams : may encountered the same problem and found solutions
- Advisor : give guidelines
- Clinics :



Please be considerate when asking for help!

Work Ethics

- Do not claim other people work as one own
- May get help from others but make sure you understand your own work
  - Generative AI?
- The understanding will be verified during technical exam
  - unethical work such as using other people work or faking working software with mock up of page/data will be penalized

Technical Spike

- Knowledge acquisition
- Help with estimation and planning
- Answers:
  - how (to store/send/receive date/time)
  - which (data type should we use for date/time)
- May create PoC, Prototype
- Should share knowledge with the team(s)

UAT

- Must commit within the first day of each sprint
- Should not under / over commit
- Must follow the latest ‘Acceptance Test’ with specified ‘Test Data’

INT222 Course Learning Outcome

1. Integrate knowledge in each domain and apply to multi-tier architecture system
2. Analyze and design by follow the project requirements
3. Use and apply studied technical concepts and practices in the core information technologies

INT222 OVERVIEW

- Iterate on INT221
- Continue working on ITB-Kradan Kanban
- 2 Releases; 6 Sprints; 2 Weeks/Sprint
- Release 2 contains must-have PBIs (fixed scope)
  - In special case, skipping is accepted
- Release 3 contains should-have/could-have PBIs
- Focus on more advance features such as security / access control

Requirements

- Support multiple users
- Sharing of board
  - private / public
  - board team (view-only, modify, full-control)
- Security and system control
  - SSL/TLS
  - Authentication
  - Authorization
- Other enhancement
  - Refine UX/UI
  - Multiple boards/user
  - MS identity platform (@ad.sit.kmutt.ac.th)

PLAN

MONTH	WEEK	MON	TUE	WED	THUR	FRI	SAT	SUN	
AUG	1	5	6	7	8	9	10	11	
	2	12	13	14	15	16	17	18	Sprint 1
	3	19	20	21	22	23	24	25	
	4	26	27	28	29	30	31	1	Sprint 2
SEPT	5	2	3	4	5	6	7	8	
	Exam 1	9	10	11	12	13	14	15	
	6	16	17	18	19	20	21	22	Sprint 3
	7	23	24	25	26	27	28	29	
OCT	8	30	1	2	3	4	5	6	Sprint 4
	9	7	8	9	10	11	12	13	
	10	14	15	16	17	18	19	20	
	Exam 2	21	22	23	24	25	26	27	
	11	28	29	30	31	1	2	3	Sprint 5
NOV	12	4	5	6	7	8	9	10	
	13	11	12	13	14	15	16	17	Sprint 6
	14	18	19	20	21	22	23	24	
	15	25	26	27	28	29	30	1	
DEC	Exam 3	2	3	4	5	6	7	8	
		9	10	11	12	13	14	15	Exam
		16	17	18	19	20	21	22	
		23	24	25	26	27	28	29	

Evaluation

- Working software : 60%
  - UAT
  - Depends on the amount of PBI completed

Each team member must contribute at least 30% or the individual score will be penalized accordingly.

- Technical (quality and understanding) : 40%
  - UX/UI 6%
  - Client-side 8%
  - Server-side 8%
  - Infra/Security 8%
  - Project management 10%
    - Team communications
    - Team planning (task board)
    - Meeting the schedule
    - Team work

Examination

- Working software :
  - (UAT) Evaluate at the end of sprint by advisor
  - If the PBI committed is incomplete, it can be evaluated again in later sprint.
    - However, it will slightly affect team's project management score
    - Make sure to plan and commit your weekly work prior to development
- Technical :
  - 12–13 December 2024 (tentative)
    - UX/UI; Client-side
    - Server-side; Infra/Security

Sprint 1 Technical Spike

- Use multiple DBMS
- Password encoding