



Meeting #1

Course Settings and Requirements

INT221 INTEGRATED PROJECT I 2021

19.04.2022

Course Learning Outcome

2

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

Concepts

- ▶ Adopt Agile/Scrum methodology (partial)
- ▶ Same main requirements
- ▶ Semi-guided development
- ▶ Weekly schedule
- ▶ Advisor is part of the team

Deliverables

4

- ▶ Working software on production server
- ▶ Project management :
 - ▶ real-time task board
 - ▶ daily meeting recordings
- ▶ Technical documents as required by each clinic

Evaluation

5

- ▶ Working software : 50%
 - ▶ UAT
 - ▶ Depends on the amount of PBI completed
- ▶ Technical (quality) : 50%
 - ▶ Client-side 10% Server-side 10%
 - ▶ DB 10% DevOps/Infra 10%
 - ▶ Project management 10%
 - ▶ Team communications (daily meeting, meeting with advisor, amount of communications)
 - ▶ Meeting the schedule
 - ▶ Team work

Examination

6

- ▶ Working software :
 - ▶ Evaluate weekly by advisor
 - ▶ If the PBI committed is incomplete, it can be evaluated again in later weeks.
 - ▶ However, it will affect team's project management score.
 - ▶ Make sure to plan and commit your weekly work prior to development
- ▶ Technical :
 - ▶ 24-27 May 2022
(exact date will be announced later)
 - ▶ Client-side, server-side, and DB
 - ▶ DevOps/Infra

Work Ethics

7

- ▶ Do not claim other people work as one own
- ▶ May get help from others but make sure you understand your own work
- ▶ The understanding may 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

Team Work

8

- ▶ Work **together** vs **dividing** work
- ▶ Avoid teams with individual roles. Why?
- ▶ 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**

Help / Support

9

- ▶ 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 :



2-2564_INT221 INFORMATION TECH...

General

Business Requirements

Database Clinic

DevOps-Infra Clinic

Programming Clinic

Project Management Clinic

Advisor Roles

10

- ▶ Look after team progress and each team member to ensure successful outcomes
- ▶ Clarify the requirements and give feedback on product (+ process)
- ▶ Perform UAT and Project Management evaluation

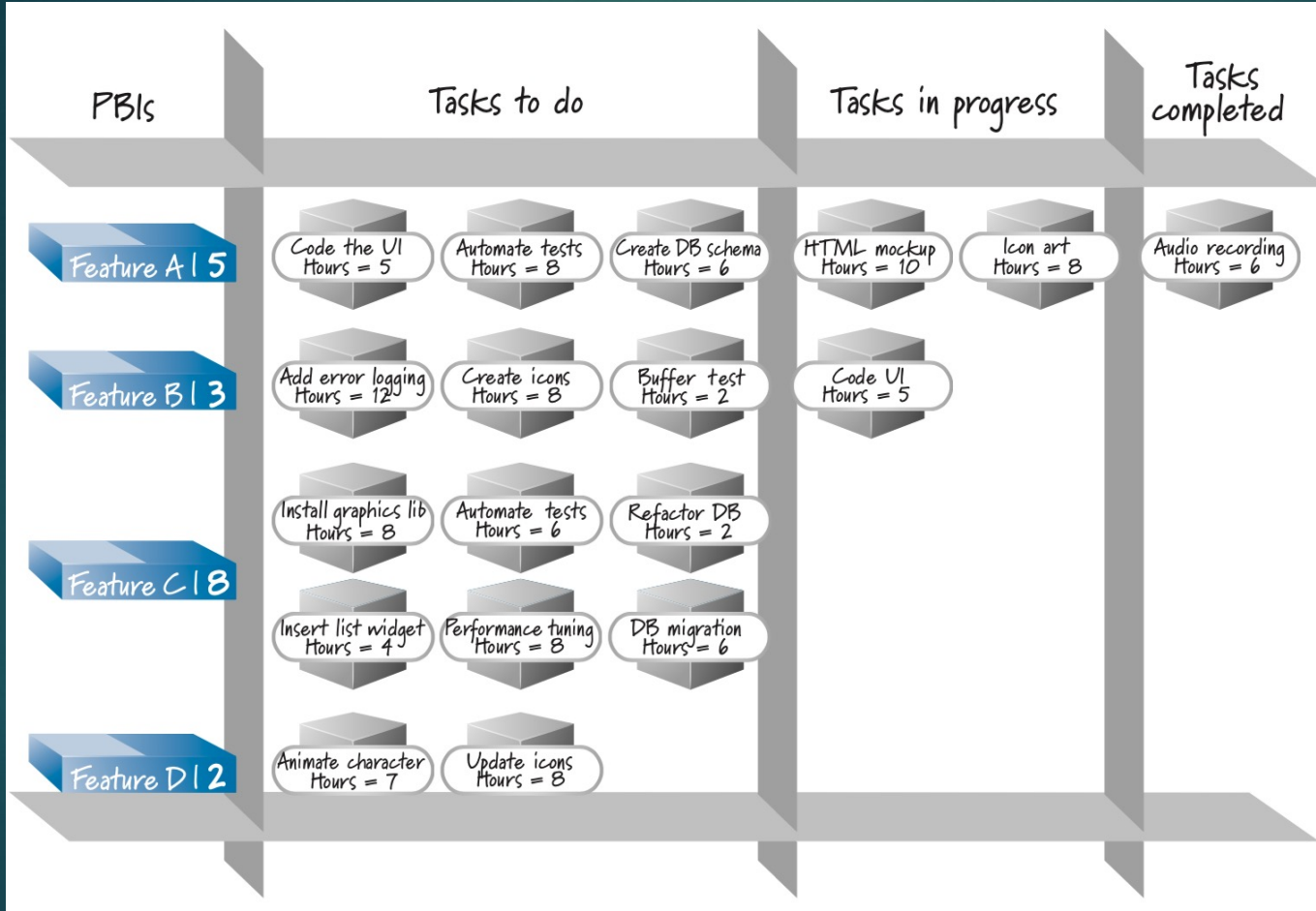
Daily Meeting

11

- ▶ 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?
- ▶ Virtual face-to-face meeting
 - ▶ each member turn on camera
 - ▶ should be less than 10 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-20220420.mp4

Task Board

12



งานที่จะทำ

estimation

Who นาย	Est. 30 นาที	Actual
------------	-----------------	--------

สร้าง API "Login"

Who	Est. 3 Hrs	Actual
-----	---------------	--------

► JIRA, trello, clickup, github

Business Requirements

13

- ▶ Online Appointment Scheduling System for Integrated Project Clinics (OASIP)
 - ▶ Makes appointment for each clinic (event)
 - ▶ The slot duration is up to each clinic setting (configured in event category)
 - ▶ Can reschedule / cancel event

event Attributes

14

Attribute Name	Description
bookingName	ชื่อในการจอง ขนาดไม่เกิน 100 ตัวอักษร เช่น Somchai Jaidee Group 04
bookingEmail	e-mail ของผู้จอง เช่น somchai.jai@kmutt.ac.th
eventCategory	ระบุว่าการจองนี้อยู่ภายใต้หมวดหมู่การจองใด เช่น Project Management Clinic
eventStartTime	วันเวลาเริ่มต้นของนัด เช่น 26 April 2022 13.30
eventDuration	ระยะเวลาของนัด เลขจำนวนเต็ม หน่วยเป็นนาที กำหนดโดยผู้จัดใน event category (ผู้จองไม่สามารถเลือกได้) เช่น 30 (นาที)
eventNotes	Optional, ข้อความจากผู้จองถึงผู้จัด ขนาดไม่เกิน 500 ตัวอักษร เช่น ปรีक्षाเรื่องการแข่งขัน

event category Attributes

15

Attribute Name	Description
eventCategoryName	Unique, ชื่อหมวดหมู่การจอง ขนาดไม่เกิน 100 ตัวอักษร เช่น Project Management Clinic
eventCategoryDescription	Optional, คำอธิบายหมวดหมู่การจอง เพื่อแจ้งให้ผู้จองทราบ ขนาดไม่เกิน 500 ตัวอักษร
eventDuration	ระยะเวลาของนัดสำหรับการจองในหมวดหมู่นี้ ใช้ตอนสร้างการจองใหม่ เลขจำนวนเต็ม หน่วยเป็นนาที มีค่า 1-480 นาที เช่น 30 (นาที)

Product Backlog

VIEW-EVENT-LIST-EMPTY

VIEW-EVENT-LIST-ALL

VIEW-EVENT-LIST-DAY

VIEW-EVENT-LIST-CATEGORY

VIEW-EVENT-LIST-UPCOMING

VIEW-EVENT-LIST-PAST

VIEW-EVENT-DETAILS-BASE

SCHEDULE-EVENT-BASIC-NO-VALIDATION

CANCEL-EVENT-BASIC-SUCCESS

RESCHEDULE-EVENT-BASIC-NO-VALIDATION

CONFIG-EVENT-CATEGORY

VALIDATE-DATETIME-FUTURE

VALIDATE-DATETIME-NONOVERLAP

VALIDATE-EMAIL

VALIDATE-EVENT-CATEGORY-NAME

VALIDATE-DURATION

- The name in **RED** is must-have.
- The remaining are either should-have or could-have

Schedule

17

Week	Work
1 Apr 19 – 25	Pre-game : design, plan, env prep
2 Apr 26 – May 2	Sprint 1
3 May 3 – 9	Sprint 2
4 May 10 – 16	Sprint 3
5 May 17 – 23	Sprint 4
6 May 24 – 27	Technical Exams

Week 1 Tasks

18

- ▶ discuss with advisor on how to work together, communication channel, meeting schedule, ...
- ▶ design system architecture
- ▶ design software architecture
- ▶ design communications between client and server :
 protocol, message type, ...
- ▶ design API specifications
- ▶ design DB
- ▶ setup dev env
 - ▶ git repo, task board, communication channels
 - ▶ IDE, localhost servers
- ▶ setup dev server
- ▶ create Sprint 1 wireframes and discuss with advisor
- ▶ prepare data/test cases/test scripts for Sprint 1
- ▶ spike/PoC for Sprint 1 (client: date/time form, DB: date/time type)
- ▶ plan with advisor on what will be committed in Sprint 1 (Sprint goals)

Norminal Sprint 1 Goals

19

PBI NAME	PBI DESCRIPTION / CONDITIONS
VIEW-EVENT-LIST-EMPTY	<ol style="list-style-type: none">1. There is no event scheduled in any event category.2. Display 'No Scheduled Events'.
VIEW-EVENT-LIST-ALL	<ol style="list-style-type: none">1. There are scheduled events.2. Display all scheduled events.3. In each event, display: event date, event start time, event duration (in minutes), eventCategoryName, bookingName (ชื่อการจอง)4. The list is sorted in descending order on event date/time. (เรียงลำดับจากวันเวลาของกิจกรรม จากอนาคตมาอดีต)
VIEW-EVENT-DETAILS-BASE	<ol style="list-style-type: none">1. Event is not null.2. Display details of selected event: event date, event start time, event duration (in minutes), eventCategoryName, bookingName (ชื่อการจอง), bookingEmail, eventNotes