



PPL 2017 - Fasilkom UI

Summary of Study Guide

Please read BRP in Scele for details

Presented by: Ade Azurat

Enhancing Competitiveness Through Industry-University Partnership

- **Keuntungan untuk Fasilkom UI**
 - Membantu memahami perkembangan kebutuhan industri.
 - Membantu proses pembelajaran mahasiswa
- **Keuntungan untuk industry/pengguna/client**
 - Mendapatkan *early exposure* dan akses terhadap talent berbakat
 - Kesempatan berkontribusi kepada masyarakat
- **Keuntungan untuk mahasiswa**
 - Meningkatkan motivasi dan pemahaman mahasiswa
 - Mengenal langsung standar industri atau *best practice* terkini.

Motivation

- Semester: 6
- Credits: 6 SKS (Equivalent to study load of 17 hours/week)
- Strict Prerequisites:
 - Software Engineering
 - Database
- Weak Prerequisites:
 - Basic Programming Skill and Data Structures
 - Web Programming and Design
 - Computer Network

General Information

➤ Credits: 6 sks (1 sks = 170 menit)

Individual weekly load equivalent to 17 hours work; divided into:

➤ **Reporting (Writing and Presentation): 3 hours / week**

➤ 1 hour - Individual evaluation and report writing (1 page/week)

➤ 2 hours - Class room: (Guest) Lecturer / Group Presentation / Sharing

➤ **Project works (Assignment): 11 hours / week**

➤ 10 hours - Project works (based on backlogs, including: code, design, writing, etc)

➤ 1 hour - Team meeting (supervised by assistants)

➤ **Self study: 3 hours / week**

➤ reading

➤ tools adaptation

➤ new technology exploration

Study Load

1. Students able to plan, manage, implement and evaluate an IT Project
2. Students able to apply standard or best practices techniques of software engineering and IT Project Management
3. Students able to practice soft skills of software engineer
4. Students able to deliver a high quality and well developed running product.

Learning Objectives
Main Goals

1. Working in team, Communication skill
2. Project Management, tool support
3. Product visibility, ideation
4. Development and Deployment, Continuous Integration
5. Software Testing, Quality Assurance
6. Maintainability, Changes management
7. Security, Privacy
8. Documentation
9. Scalability, Profiling

Learning Objectives

Competence Topics

Week	Weekly Activities	Milestone/ Deliverables
1	Introduction, Brainstorming, review idea	Topics
2	Write proposal/Project Vision	Proposal/ Project Vision
3	Design wireframe	Wireframe + flow
4	Sprint plan 1	Product backlog
5	Development sprint 1	Standard Working environment
6	Development sprint 1	Git progress, code review
7	Development sprint 1	Git progress, code review
8	Sprint review 1, sprint plan 2	Executable prototype & Document
9	Development sprint 2	Git progress, code review
10	Development sprint 2	Git progress, code review
11	Development sprint 2	Git progress, code review
12	Sprint review 2, sprint plan 3	Publishable product & Document
13	Development sprint 3	Git progress, code review
14	Development sprint 3	Git progress, code review
15	Development sprint 3	Git progress, code review
16	Sprint review 3, deployment	Publishable Product & Document

Class Activities			
Session 1 (Wednesday)		Session 2 (Thursday)	
8-Feb	Lecture by Dr. Eko K Budiardjo: Overview, Brainstorming	Workshop by Partners: Ideation	9-Feb
15-Feb	Team Presentation: Product Proposal (incl. mock-up)		16-Feb
22-Feb	By Partner+ TA, Lecturer: workshop Scrum + git	Lecture by Dr. Eko K Budiardjo: scrum, git	23-Feb
1-Mar	by Lecturer+ TA: Team Review: Product backlog, Sprint Planning		2-Mar
8-Mar	Individual Weekly Progress		9-Mar
15-Mar	Lecture by Partner: Clean Code, Software Architecture	Lecture by Partner: Unit Testing, CI	16-Mar
22-Mar	Individual Weekly Progress		23-Mar
29-Mar	Team Review and Presentation		30-Mar
5-Apr	Individual Weekly Progress		6-Apr
12-Apr	Lecture by Partner: Security, Deployment	Lecture by Partner: Scalability, Profiling	13-Apr
19-Apr	Individual Weekly Progress		20-Apr
26-Apr	Team Review and Presentation		27-Apr
3-May	Individual Weekly Progress		4-May
10-May	by selected teams: Technology Sharing, Lecture by Dr. Eko K Budiardjo: Product Validation		11-May
17-May	Individual Weekly Progress		18-May
UAS	Team Review and Presentation		UAS

- Weekly individual report progress
- Contribution in team work
- Quality of work
- Learning effort
- Tool proficiency
- Discipline
- Application of knowledge and skill
- Team and Individual Improvement
- Feedback from client or partner

Evaluation Criteria

- ✓ For each team:
 - ✓ Consist of 5 students
 - ✓ One TA (Teaching Assistant) supervises 2-3 teams
 - ✓ Topic chosen by team.
- ✓ Grading schema: (subject to change)
 - ✓ 20% Progress by teaching assistants
 - ✓ 30% Weekly Skill/Knowledge achievement and report by Lecturer
 - ✓ 10% Group Competences
 - ✓ 20% Project Contribution (peer, TA, lecturer review)
 - ✓ 20% Final Product Quality by Partners (during summer camp exhibition)
- ✓ Progress is evaluated by fill-in progress sheet by assistant and lecturer.

Class Arrangement for 2017

- a) Work on their own tasks as part of the team
- b) Self-study, learn and explore the latest technology
- c) Create a short weekly progress notes.
 - ✓ The notes should be made accessible by the lecturers, partners, and assistant.
 - ✓ The students are expected to spend at least 30 minutes to write notes every week.
 - ✓ The expected length of the notes is 200 - 500 words excluding other text from external source.
 - ✓ Respect other in writing your notes.
- d) Attend min the 1 hour weekly team meeting to do:
 - ✓ Team work and discussion, supervised by Assistant.
 - ✓ Daily Scrum Meeting
 - ✓ Preparation for Sprint planning or Sprint Review (if applicable)

What Students do weekly

➤ Content:

- ☐ What have you done
- ☐ What have you learnt (Main Focus)
- ☐ What problem did you encounter
- ☐ What are you going to do next

➤ Guide:

- ✓ The notes should be made accessible by the lecturers, partners, and assistant.
- ✓ The students are expected to spend at least 30 minutes to write notes every week.
- ✓ The expected length of the notes is 200 - 500 words excluding other text from external source.
- ✓ Respect other in writing your notes.

Weekly Report

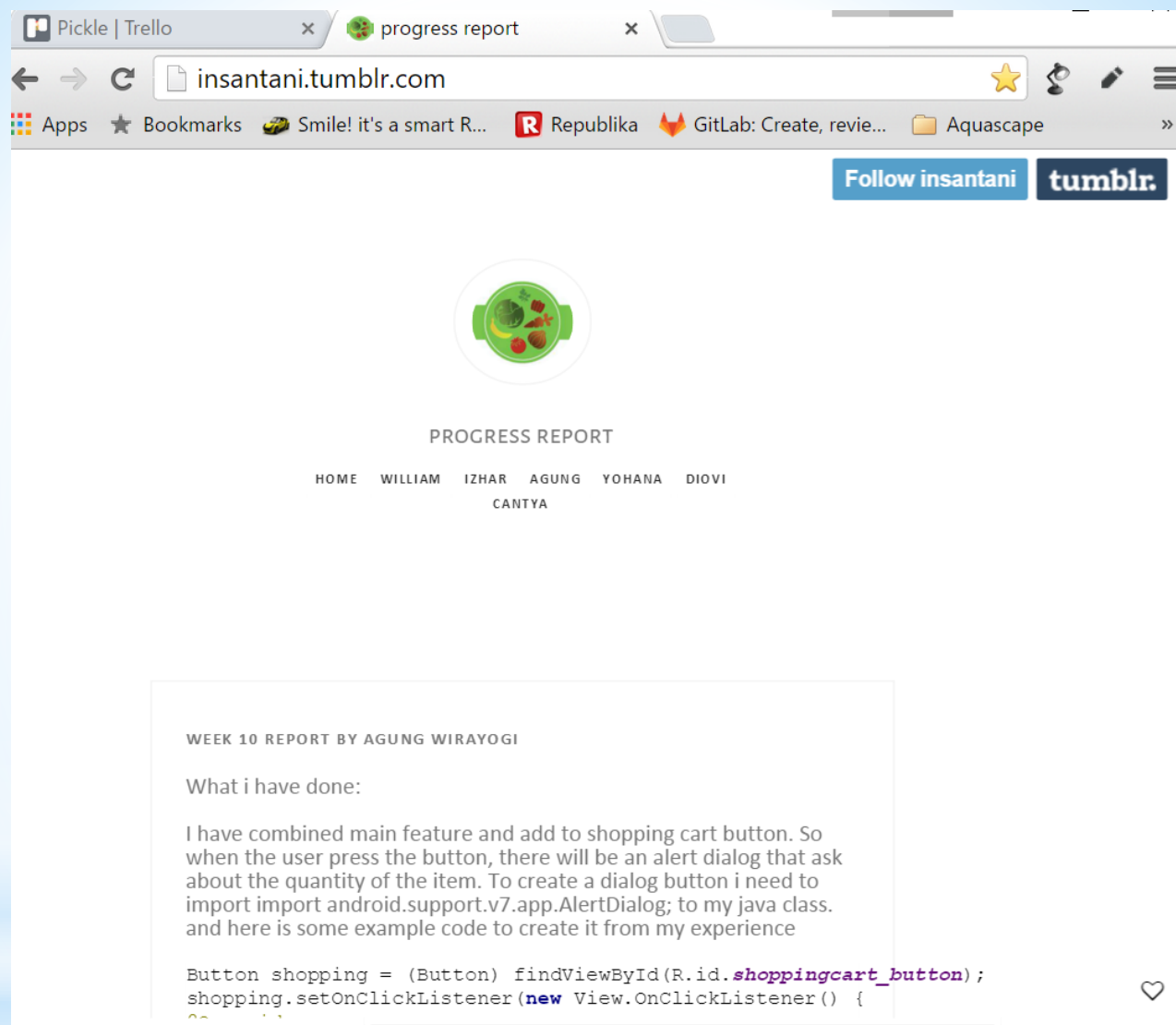
Student's weekly progress, is appreciated bi-weekly by lecturer. It is consisted of four parts.

- Part A is related to the knowledge and skills.
- Part B is related to good practices in software engineering
- Part C is related to behavior attributes or soft skill
- Part D is related to group competences

Bi-weekly Individual Appreciation

Monitoring Tools

Progress should be documented well.
Students claim should be justified by written evident.



Online Review & Evaluation

Team Visible 🔥 [Burndown Chart](#) 1K 1960

Ready To Test 28

As a customer I can list my current request that has not been picked yet
☑️ 9/10 🧠 5 A

As a Customer, I can view my account so I can know the details of my profile.
☑️ 5/8 🧠 5

As a Customer, I can view list of the trash request so I can choose one of them
☑️ 9/14 🧠 5

As a customer, I can view a single article containing the title and the content so that I can read the article itself.
☑️ 7/10 🧠 5 A TVC

Add a card...

Done 10 32

As a Customer, I can display individual trash information and I can accept the request.
☑️ 10/10 🕒 Nov 14 🧠 3 TVC

As a customer, I can edit my account so that I can change any mistakes.
☑️ 8/8 🧠 5

As a Customer, I can edit my request so I can change any mistakes.
☑️ 7/7 🧠 5 TVC

As a customer, I can view my request history so that I can track all of the request that I have made.
☑️ 10/10 🧠 5 A

Add a card...

Bug List

Layout
☑️ 0/2

Functional
☑️ 0/3

Add a card...

Activity

Nov 17 at 4:36 AM

A **Adiyasanaul** moved (5) As a customer I can list my current request that has not been picked yet from Ready To Test to In Progress (Team 1) Nov 17 at 3:37 AM

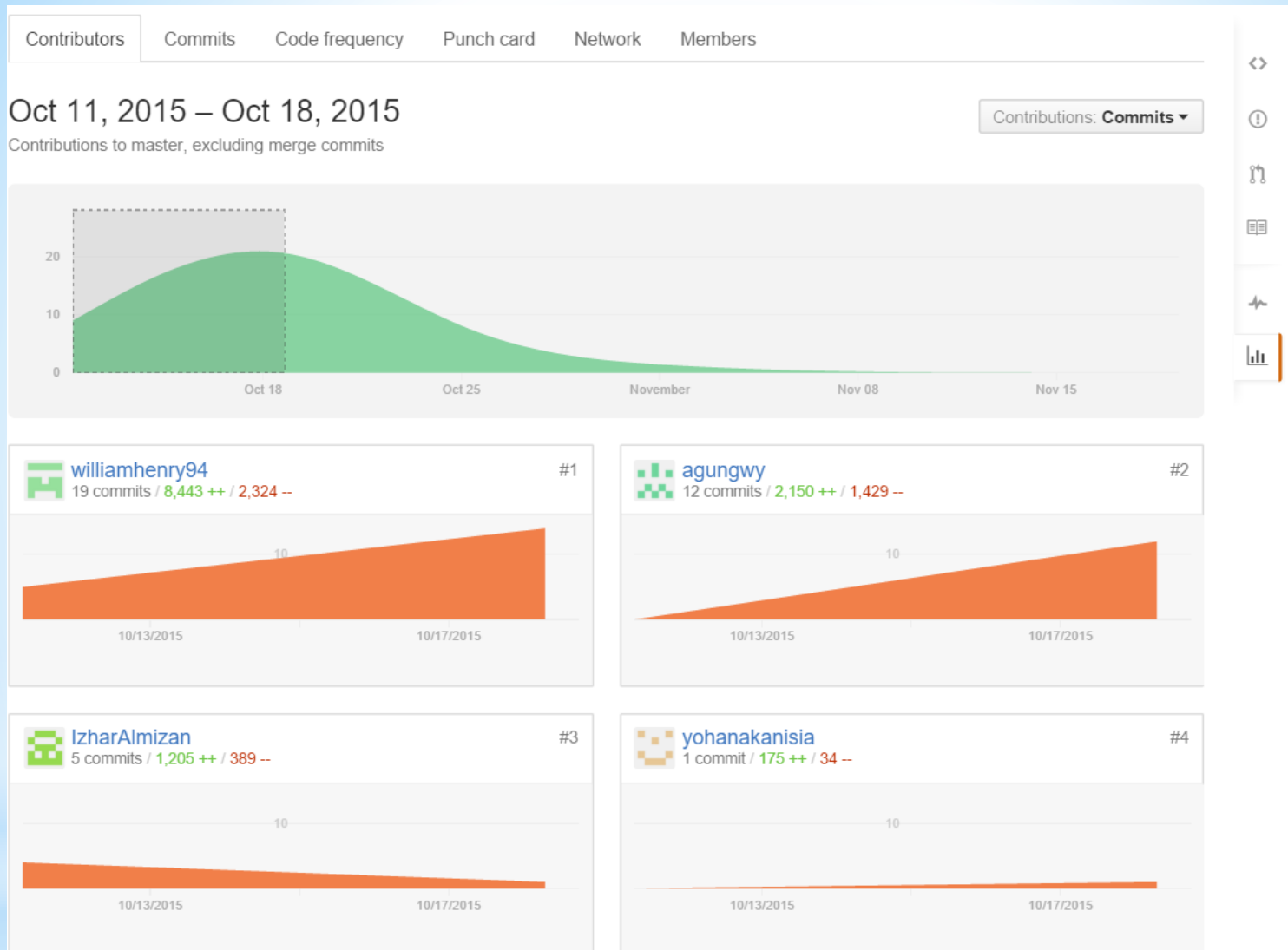
A **Adiyasanaul** moved (5) As a customer, I can view my request history so that I can track all of the request that I have made. from Ready To Test to In Progress (Team 1) Nov 17 at 3:37 AM

TVC **Tsabita Vera Cyavrilla** moved Layout Fixing from In Progress (Team 1) to Done Nov 16 at 11:26 PM

TVC **Tsabita Vera Cyavrilla** completed Fix back button for modify layout on Layout Fixing Nov 16 at 11:26 PM

TVC **Tsabita Vera Cyavrilla** completed Fix modify other trash on Layout Fixing Nov 16 at 11:02 PM

Online Review & Evaluation



Online Review & Evaluation

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Main Competences		Description or Sub-Competences	Type	Final Achievement	Week									
Part A: Knowledge and Skills					1	2	3	4	5	6	7	8	9	10
(the highest score)														
Software Design	Webservices and API	Mandatory	4	0	0	2	2	3	3	3	4	4	4	
	Design using standard tools (such as UML)	Mandatory	0	0	0	0	0	0	0	0	0	0	0	
	Software architecture	Optional	0	0	0	0	0	0	0	0	0	0	0	
	Object Oriented Design Best Practice	Optional	0	0	0	0	0	0	0	0	0	0	0	
	Tool, and Technology overview	Optional	0	0	0	0	0	0	0	0	0	0	0	
Development and Deployment	Continuous integration:	Mandatory	3	0	0	0	0	0	0	0	3	3	3	
	Concept:	Optional	2	0	0	0	0	0	2	2	2	2	2	
	Programming (minimum 3 user stories)	Mandatory	4	0	0	0	1	1	1	2	2	3	3	
	Debugging (solving minimum 3 bugs reports or 3 change requests)	Mandatory	4	0	0	0	0	0	1	1	1	2	2	
	Applying suitable algorithm and data structures	Mandatory	0	0	0	0	0	0	0	0	0	0	0	
	Android Framework	Optional	3	2	2	2	2	2	3	3	3	3	3	
	Framework:	Optional	0	0	0	0	0	0	0	0	0	0	0	
	Build Script and software integration	Mandatory	4	0	0	1	1	1	1	1	2	2	3	
	Cloud deployment	Optional	3	0	0	0	2	2	3	3	3	3	3	
	Software testing Concept	Mandatory	0	0	0	0	0	0	0	0	0	0	0	
Software Quality	unit test, functional test	Mandatory	4	0	1	1	1	2	2	2	3	3	3	
	Tool:	Optional	0	0	0	0	0	0	0	0	0	0	0	
	Code Review	Mandatory	0	0	0	0	0	0	0	0	0	0	0	
	Tool:	Optional	0	0	0	0	0	0	0	0	0	0	0	
	Bug/Ticket Tracking	Mandatory	0	0	0	0	0	0	0	0	0	0	0	
Maintainability	Software Configuration Management	Mandatory	0	0	0	0	0	0	0	0	0	0	0	
	Tools:	Optional	0	0	0	0	0	0	0	0	0	0	0	
	Refactoring	Mandatory	0	0	0	0	0	0	0	0	0	0	0	

Weekly Progress Evaluation
(shared with each student)

- Data dan persiapan dibantu dan didapat dari:
 - International Students of IT Project 2015
 - Regular Student of PPL-C 2016
 - Fauzan Helmi Sudaryanto
 - Niken Fitria Apriani
 - PT. NostraTech
- Pertanyaan atau diskusi lebih lanjut bisa disampaikan pada Tim Dosen PPL 2017 yaitu:
 - Eko K Budiardjo (eko@cs.ui.ac.id)
 - Ade Azurat (ade@cs.ui.ac.id)
 - Maya Retno Ayu Setyautami (mayaretno@cs.ui.ac.id)
 - Gladhi Guarddin (adin@ui.ac.id)
 - Bayu Anggoroajati (bayuanggoroajati@cs.ui.ac.id)

Terima kasih