

**MID TERM EXAM EVEN SEMESTER ACADEMIC YEAR 2019/2020**  
**INFORMATICS DEPARTMENT**  
**FACULTY OF ENGINEERING AND INFORMATICS**  
**UNIVERSITAS MULTIMEDIA NUSANTARA**

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Subject	: IFD 400 – Software Engineering	Day/Date	:	
Lecturer	: Eunike E Surbakti, S.Kom., M.T.I	Duration	:	100 Minutes
Type	: Closed Book			

**Achievements in Subjects Tested:**

- Students are able to explain the basic concepts of software engineering **(CPMK 1)**
- Students are able to use the basic concepts of software engineering in problem solving **(CPMK 2)**


**Questions:**

**Here are the problems faced by Koperas Simpan Pinjam Maju Bersama:**

1. Koperas Simpan Pinjam Maju Bersama has 100,000 consumers spread across Jabodetabek. The average consumer arrears every month is 8% of the total consumers. Current conditions, the corporate only has 35 collectors to collect debt. No application has been built to help collectors deal with consumers in arrears.
2. Another problem, marketing division is targeted to increase the number of consumers 1.5% every month. At present promotions are carried out only through social media, bazaars in malls or open places. Give advice to improve promotional media in accordance with your IT specialist?
3. The process for new consumers takes 3-5 days to be given a loan. Marketing will do a survey in the morning then the results will be given in the afternoon to the office. The operational division will check the completeness of the files and requirements of new prospective consumers. If there are requirements not completed, operational will return it. You as an IT consultant what solutions can you help to speed up the process of registering new consumers?

**You can choose one of three problems above to solve. All you have to do is answer a few questions below:**

1. Choose the software development method that you are using and why? Like conventional, agile or hybrid
2. Design the System to Be Condition by analyzing why, what and who?
3. Build requirements / features made according to the existing software development method?
4. Then the use case diagram form of the features to be built?
5. Give two examples of requirements defects that will occur and provide the correct solution requirements.

References:	Created by:	Approved by:
Lecture Materials 1 - 7	     <b>Eunike E Surbakti, S.Kom., M.T.I</b> Subject Coordinator	  <b>Nunik Afriliana, S.Kom., MMSI</b> Head of Informatics Department