

## BINUS University

<b>Academic Career:</b> <i>Undergraduate / <del>Master</del> / <del>Doctoral</del> *)</i>		<b>Class Program:</b> <i>International/Regular/Smart Program/Global Class*)</i>	
<input checked="" type="checkbox"/> Mid Exam <input type="checkbox"/> Final Exam <input type="checkbox"/> Short Term Exam <input type="checkbox"/> Others Exam : _____		<b>Term : Odd/Even/Short *)</b>	
<input checked="" type="checkbox"/> Kemanggisan <input checked="" type="checkbox"/> Alam Sutera <input type="checkbox"/> Bekasi <input type="checkbox"/> Senayan <input type="checkbox"/> Bandung <input type="checkbox"/> Malang		<b>Academic Year :</b> <b>2021 / 2022</b>	
Faculty / Dept. : School of Computer Science		Deadline	Day / Date : Thursday / Nov 25 <sup>th</sup> , 2021 Time : 17:00
Code - Course : COMP6107001 - Agile Software Development		Class : All Classes	
Lecturer : Team		Exam Type : Online	
*) <i>Strikethrough the unnecessary items</i>			
<b><i>The penalty for CHEATING is DROP OUT!!!</i></b>			

### ***Learning Outcomes:***

**LO 1 :**Describe - The students able to describe the Agile principles in general, especially the using of Scrum Methodologies to develop the software systems for business applications

**LO 2 :**Create - The students able to create an holistic activities planning in accordance to the software development based on the using Scrum methodologies

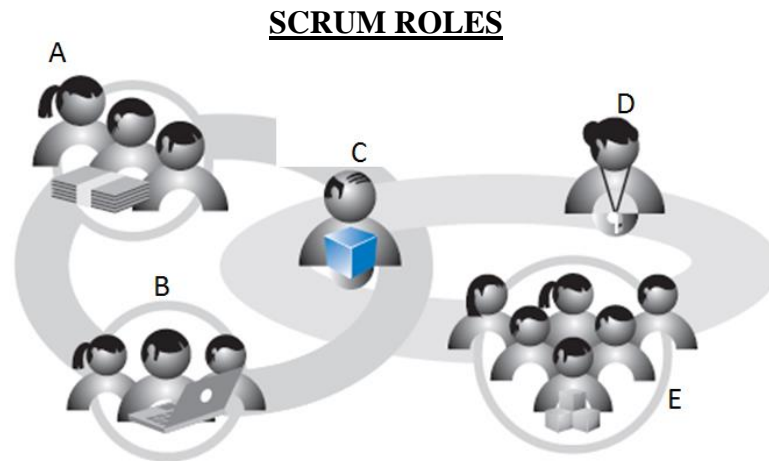
**LO 3 :**Use - The students able to use the development tools in modeling through implementation phases within the software development processes using Scrum

### **I. Essay (50%)**

1. **[LO 1 & LO 2, 5 points]** The Scrum Framework defines several meetings that have to be organized and facilitated by the Scrum Master. Please explain and mention those meetings name.
2. **[LO 1 & LO 2, 5 points]** Mention and explain 5 types of Product Backlog Items.
3. **[LO 1 & LO 2, 10 points]** In the Scrum framework, the factors which is defined when a feature is complete and when it meets the required quality standards are set by Definition of Done (DoD). Please describe and give examples.
4. **[LO 1 & LO 2, 15 points]** Within the Agile Methodology, there are principles that guide the management of application development projects. Mention and explain the principles of Agile.
5. **[LO 1 & LO 2, 15 points]** Mention all the scrum roles below (A, B, C, D, E) and explain the main responsibilities for each role!

Verified by,

[Kenny Jingga] (D6426) and sent to Program on Oct 26, 2021



## II. Case Study (50%)

PT. Pandu Groceries is currently improving the quality of service to customers by expanding the range of sales by making it easier for customers to get the desired goods. This is due to the COVID-19 pandemic which is still an obstacle to the company's business development. Sales expansion requires application support to be able to make it easier for prospective customers to see the items needed to buy the items needed through the application. Below are the details of the application requirements:

- There are 3 types of users who use this application: Admin, field supervisor, customer.
- Admin can access all the features in the application
- Field Supervisors can update stock of goods, monitoring and approval of goods entering and leaving the warehouse, monitoring the schedule of goods coming from suppliers.
- Customers can see the availability of goods from the application, update and delete shopping carts, pay for goods with many payment methods, choose the type of delivery of goods and monitor the status of the delivery of goods.
- There is a feedback feature to see reviews from customers related to the quality of service provided from the application used and feedback on the quality of the goods purchased.
- The application will provide discounts to loyal Pandu Groceries customers in the form of shipping costs discounts.

Based on the requirements above, create an application using the scrum method.

- [LO 1, LO 2 & LO 3, 10 points]** Create an organizational structure for this project and describe each task and responsibility.
- [LO 1, LO 2 & LO 3, 15 points]** Create user stories from the requirements above (Minimum 4 user stories).
- [LO 1, LO 2 & LO 3, 15 points]** Make an Epic for the above application needs and create a grooming product backlog from the above application requirements.
- [LO 1, LO 2 & LO 3, 10 points]** Make Sprint Planning Items and Sprint Goals from the above application requirements.

-- Good luck --

Verified by,

[Kenny Jingga] (D6426) and sent to Program on Oct 26, 2021