

Academic Case Study

Evaluation of the Feature Modeling-based Stakeholder Management Process

Software Engineering Course

BAU

Salt, Jordan

2023

Case Study Evaluation Experiment

Participants: Students in the Software Engineering course at Al-Balqa' Applied University

Student ID -----

1. Objective

The main objective of this case study is to investigate the applicability of **feature modeling-based stakeholder management strategy** in a real-world stakeholder management process.

2. Background Information

1.	What is your major field of study?			
2.	How much experience do you have in requirement engineering?			
a)	Little experience	b)	Medium experience	c) Significant experience
d) Professional experience				
3.	How motivated are you to perform well in this experience?			
a)	Highly unmotivated	b)	Unmotivated	c) Motivated
d) Highly motivated				

3. Experiment

Based on the presentation section and the explanation of the proposed strategy and the case study procedure, Please perform the following tasks¹:

Task 1: Based on the explanation of the attached Smart Home, please build the stakeholder feature model for the Smart Home.

¹ For confidentiality issues we are unable to show the answers of the students.

Task 2: Update the information of the stakeholders by applying feature model refactoring to the stakeholder feature model. Add a new role to the “Owner” stakeholder, like, the home owner shall be able to send a request about the door lock status via mobile phone?

Task 3: Update the information of the stakeholders by applying an insertion operator to the same feature model. Expand the stakeholder list to include the “Installer”, “Technician”, and “Security” stakeholders using the insertion operator.

A test for comparison purposes between the proposed strategy and the base-line strategy

Related to the urgent request to Pioneer Company to engage a new stakeholder in the software product. Please try to engage the stakeholder using both the normal and the proposed strategy?

Thank you for your collaboration and commitment to our shared case study