



HACETTEPE UNIVERSITY

COMPUTER ENGINEERING DEPARTMENT

BBM443 Project

Fall 2020

Instructor: Dr. Adnan Özsoy

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Programming Language: Solidity 0.6.5

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Discussion question

Above model requires a manager to work. Is it possible to propose a model without the need of a manager?

If yes, explain which functions need to be changed and how.

If no, explain thoroughly.

Yes, it is possible to propose a model without a manager. Let's take a look at what the manager does:

- Set car dealer
- Purchase car
- Propose driver
- Set driver
- Fire driver
- Release salary
- Car expenses
- Pay dividend

Now we need to think about this model without a manager. How can it possible? Firstly, participants need to arrange car dealer. For this we need to take proposed car dealers' information in an array. Every participant can approve an exist proposed car dealer or suggest a car dealer just 1 time. For setting car dealer there can be time limit from the commencement of the agreement. This mechanism can also work for car driver and buying car. For releasing salary, car expenses and pay dividend we have already a time limit. Every participant knows the time limits. We do not need to a manager to call a function. Participants can call these functions. For firing driver, if a participant does not want to exist driver, he/she can call fire driver function. If more than half of the participants call this function driver will fired.