**Case 3 – TU-K Innovations**

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| * In the context of the ongoing modernization of TU-K, the University head of Security has approached you to design a simple system for the ***askaris*** manning the University gate. The idea is to automate / computerize what happens at the gate. Starting with the Visitors-Book. The visitors book records all visitors to the University premises. At any given gate, a record of a visitor shows, among other things the following:   + The officer who attended to the visitor, the date of visit, details of the visitor, destination point/office, the purpose/objective of the visit, mode of traveling used (and corresponding details), report from the visited person, gate used to exit, etc.   + After listening to the visitor, the security officer (***askari***) must indicate on the form whether the purpose of visit is official, private, or returning resident. Official can be administrative office visit, lecturing, studying, working, * etc   **MAKE A GROUP COPY OF THIS FILE!, rename your file accordingly** | | | |
| Required:   * + Identify objects   + identify **relevant** data (members of the class)   + Identify **relevant** methods (behaviors and messages) | | | |
| **Object / Class** | **Properties of the Object** | **Methods of the Object** | **Remarks (optional)** |
| 1. Askari | Name  Staff id  Rank | getVisitorDetails()  assignRole()  getReport()  assignPassId()  classifyPurpose()  checkout()  provideDirections() | The Askari will provide the pass card in case one is allowed in. |
| 1. Visitor | Name  Nation ID / Student ID  Mode of traveling  Purpose for visiting  Pass Id | signIn ()  getDirections()  receivePassId()  returnPassId() | The visitor would be guided by the Askari |
| 1. Visitor’s book | Visitor’s name  Time in  Time out  Purpose for visiting  ID Number  Phone number  Plate number | recordVisitorInformation()  generateSummary() | It records all the necessary information |
| 1. Visited person | Department  Staff Id /National ID  contact | writeReport() |  |
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| Breakout Room Number: \_\_\_\_\_  Group Members:   1. SCCI/00611/2021 - Rashid Isaak 2. SCCI/00605/2021 - Felistus Kioko 3. SCCI/00617/2021 - Felix Kemboi 4. SCCI/00600/2021 - Nesta Ndereva 5. SCCI/01047/2021 - Ezekiel Njeri | | | |