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|  | **HASAN KALYONCU UNIVERSITY**  **Computer Engineering Department** **COME 499 Project Proposal Form** |

**Part I. Project Proposer**

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| **Name Last-named** | **Assist. Prof. Dr. Saed ALQARALEH** | **E-mail** | **saed.alqaraleh@hku.edu.tr** |

**Part II. Project Information**

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| **Starting Term** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2 | 0 | 1 | 9 | / | 2 | 0 | 2 | 0 | |
| **Title of the Project** | Mobile Based Unused Medicine Donation |
| **Project Description** | |
| In this project, a new mobile app for donating unused medicines will be introduced. This system helps the users to donate unused medicines, where they can register and login, then, the unused medicines can be added to the system by scanning the barcode on the package and choosing where they want to donate these medications. The mobile application extracts all medical information from the barcodes found on medical packaging and links users with individuals in need and/or organizations that could redistribute this medication. Organizations are responsible for collecting and distributing medicines to people with financial problems, free of charge.  Once the donators set up the application, they can decide how they want to deliver their unused medications to the beneficiary organizations and/or directly to the one how need this medication, either delivering it personally or by asking for assistance from the voluntaries network. On the other hand, whenever a user is in need of medicines he/she can upload the prescription and they will be informed whenever these medicines are available. | |
| **Project Justification** | |
| **Novelty** | |
| **New aspects** | A mobile system that has the ability to help donating unused medicines. |
| **Complexity** | |
| **Challenging problem and issues** | Automating the process of recognizing the drugs by scanning the barcode is a challenging task for developers. In addition, generating multiple reports about individuals in need, donators and organizations is also a critical issue for the project. |
| **Related computer science fields and subfields** | Database management, Programming |
| **Tools** | Android, Firebase |
| **Risk involved** | |
| **Potential problems and alternative solutions** | The efficiency of the available camera in the used mobile might be below the expectations. As an alternative solution, users can manually write the barcode on the package. |
| **Minimum work required** | 4 MONTHS |