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

**Part I. Project Proposer**

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| **Name, Last Name** | **Prof. Dr. M. Fatih Hasoglu** | **E-mail** | [**mfatih.hasoglu@hku.edu.tr**](mailto:mfatih.hasoglu@hku.edu.tr) |

**Part II. Project Information**

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| **Starting Term** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2 | 0 | 2 | 1 | / | 2 | 0 | 2 | 2 | |
| **Title of the Project** | Neighbors' Complaints and Requests Application |
| **Project Description** | |
| A large number of people move to big cities because plenty of attractive resources and opportunities that those cities provide. People living in big cities often or rarely faces problem/s which needs to be reported to local government officials. Such problems or issues might be related to the pollution, heavy traffic congestion, environment and etc.  In this project, a mobile application will be developed to help neighbors submit city-related complaints or suggestions to local governmental management. While submitting a complaint or suggestion, neighbors can use the camera and GPS location on their phones. Using camera picture submissions and precise location identifications could be possible. This application also helps governmental officials to direct issues to relevant department for an immediate solution. Therefore it will be useful to manage call centers in local municipalities. Neighbors can see the status of their request/suggestions that they have previously made. The application will be developed as prototype for three central cities of Gaziantep, specifically for Sehitkamil, Sahinbey and Oguzeli cities. | |
| **Project Justification** | |
| **Novelty** | |
| **New aspects** | An application developed to manage complaints and suggestion from local people. |
| **Complexity** | |
| **Challenging problem and issues** | By using the GPS, identification of the address with the street name.  Using SMS verification to check the reliability of any submission. |
| **Related computer science fields and subfields** | IoT, mobile application development. |
| **Tools** | Google Android platform and/or Xcode Apple developer.  SQlite Database on Android or firebase |
| **Risk involved** | |
| **Potential problems and alternative solutions** | If the GPS cannot be used to identify the address then the manual address selection will be given as an option.  Just in case SMS can't be integrated into the program, an email verification will be used instead. |
| **Minimum work required** | 4 MONTHS for design and 4 MONTHS for implementation. |