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

**Part I. Project Proposer**

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| **Name Lastname** | **Mohammed MADI** | **E-mail** | **mohammed.madi@hku.edu.tr** |
| **Company Information**  **(If you have collaboration with a company)** |  | | |

**Part II. Project Information**

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| **Starting Term** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2 | 0 | 2 | 1 | / | 2 | 0 | 2 | 2 | |
| **Title of the Project** | Network Fault Management System For Educational Institution |
| **Project Description** | |
| This project investigates the problem of network fault management that happens in most of educational environments. As in such environments, rich media applications are used in order to aid and enhance the educational process and quality.  When a particular device reports a problem like connection problem or a firewall reports malware on an endpoint a problem, we need to find out and locate the device that cause the problem. Therefore the main goal of this project is to develop a system that is remotely locate the devices and visualize the particular subnet and its neighbour in a logical topology. The system is able to check the network infrastructure connectivity and verify that each network infrastructure device like router, switch, firewall, etc. is properly connected to its neighbors | |
| **Project Justification** | |
| **Novelty** | |
| **New aspects** | This application is useful for network administrator in colleges, company’s etc.  All the applications running on the computers will be monitored by the handheld device |
| **Complexity** | |
| **Challenging problem and issues** | How to keep High Throughput of the system since.  How to Meet the administrator’s requirements and satisfaction, since performing all the functions required administrating the network remotely. |
| **Related computer science fields and subfields** | Computer Networks, Software Engineering |
| **Tools** |  |
| **Risk involved** | |
| **Potential problems and alternative solutions** | System testing and documentation may take longer than expected due to last minute errors in implementation, calibration, and evaluation. So we are planning to perform unit testing as early as possible |
| **Minimum work required** |  |