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

**Part I. Project Proposer**

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**Part II. Project Information**

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| **Starting Term** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2 | 0 | 1 | 9 | / | 2 | 0 | 2 | 0 | |
| **Title of the Project** | Smart Pricing Assistant |
| **Project Description** | |
| In this project, a smart pricing assistant will be developed. In general, this application collects data from multiple websites that publish ads about the required product. Then, the lowest, highest and average prices related to the relevant category will be calculated. In addition, this application will give a detailed report in the specified item category.  As a case study, the data will be collected from some websites that offer second-hand cars such as "sahibinden.com", "arabam.com", etc. The main reason for selecting this category is that there are many people buy and sell vehicles in a daily manner. However, most of them find difficulties in determining the most appropriate price for the vehicle that they plan either to buy or to sell. Currently, in such a case, we are losing many hours or even days in the internet searches, and inquiring some information from various sources, in order to determine the price. By using the developed application, the user will select the desired car category, and its price information will be collected. As mentioned before, the lowest, highest and average prices in the relevant category will be shown to the user. Besides, the application will show a detailed report about the vehicle category, which helps in taking the right decision. | |
| **Project Justification** | |
| **Novelty** | |
| **New aspects** | User will be able to get the most important information about the required product fastly, and no need to spend many hours in visiting many websites. |
| **Complexity** | |
| **Challenging problem and issues** | Ability to determine the lowest, highest and average prices in the relevant category from multiple websites can be a Challenging problem. |
| **Related computer science fields and subfields** | Web API, DBMS, MVC |
| **Tools** | Visual Studio .Net, Agility Pack, Sql Server, Oracle, etc. |
| **Risk involved** | |
| **Potential problems and alternative solutions** | The process of receiving data can take a long time. In this situation, key indexing methods will be used. |
| **Minimum work required** | 4 MONTHS(2 students) |