**BE : Project Abstract 24 July 2017**

**Group Number:** 18

**Priority : 1**

**Project Title : Smart web crawler for e-commerce websites**

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**Abstract of Project :**

**In today’s world, e-commerce is the strongest and the fastest growing platform in the world. People tend to buy products from websites now and then, but wait have you heard about the word “Assistant”? Until now, price comparisons of the same product on different websites are available but now, moving a step ahead, this project tends to serve as a smart web spider for particular websites, which will crawl whole website for you and find out the cheapest yet bestest product of your choice. For eg. If you are searching for a Titan watch (maybe the cheapest), then this program will search whole website (say Flipkart.com) ansd gives the cheapest titan watches for you.**

**You might be thinking what’s the big deal, even the search bar on the website can do this work for me, Correct? Yes, you are correct but here’s the catch, it will list for you hundreds and hundreds and pages on which even after applying filters you will end up with several pages. In spite this program, on one click, will list down all feasible outcomes for your search. It can also serve as an Assistant for users. These deals are valid for time being only.**

**a) Motivation*:*** *It can save lots of money as far as users are concerned. From the company’s point of view, this program can track down glitches and errors, which can help companies to save a nice chunk of money.*

**b) Problem Statement**: Till date we are only able to compare price of single product on different websites but what about choosing optimum product from multiple available products on different/same website?

**c) Approach:** *We will be creating a program in python, which will crawl through each product on the website and give the optimum result. Moreover, it can also help companies to track down products, which are currently sold at negligible price (let say at* ₹0/₹1*).*

**Reference papers*:***

***Title:***Research on Prototype Framework of a Multi-threading Web Crawler for E-commerce

Author Name: Wenqing Yuan

*http://ieeexplore.ieee.org.sci-hub.cc/document/5304437/*

***(\*Compulsory : Please attach a copy of base paper .)***