**Analysis of Algorithms**

Fall 2019

**Proposer Details**

| Group Number | *[Group Number will be allocated to your after your topic approval]* |
| --- | --- |
| Registration Number of Group Members | 2017-CS-302  2017-CS-304  2017-CS-318 |

**Proposal Details**

|  |  |
| --- | --- |
| ***Project*** |  |
| Proposed Project Title | Auction System |
| Executive Summary | There will be a public auction. We'll have a lot of items in the list with low and high price mentioned. The items will be allotted by numbers too. Items with low price are sorted on top and high price on bottom. Highest bid will be preferred for everything. User will buy by auction number. Once an item is sold it will be inserted into sold array and unsold items will be in unsold array. Once the auction is done array of sold item will be sent to a text file named sold.txt same as array of unsold item will be sent to a text file named unsold.txt using partitioning algorithm. We can thus calculate the profit from this particular auction. The unsold items will be added to the list that will be available for the next auction. |
| ***Business Case*** |  |
| Outline the business need for the project | *Conventional auction system will be revolutionized with our project* |
| End user of the product | *Businessmen and proprietor of goods* |
| Motivation for Project | *We visited an auction where all the sold and unsold goods were placed intermixed. There were no tags on goods about their price. There was a lot of confusion regarding pricing and sold and unsold goods. To overcome that problem, we have come up with the idea of putting tags on goods.* |
| Description of the project objective(s) | 1. *Make Auction System Automatic* 2. *Make different tags for sold/unsold goods* |
| State the level of impact expected should the project proceed and implications of not proceeding | *Yes.*  *It will have impact at operational level. Owner of goods will enter their goods online and after it auction will be done by system minimizing multiple costs.* |
| Functional Requirements | 1. *Login* 2. *Help* 3. *Browsing (looking through the site but not participating)* 4. *Sell* 5. *Bidding On Items* 6. *Searching the Database* 7. *Change language* 8. *Accept/decline auction* |
| ***Benefits*** |  |
| What benefits are expected/ anticipated? | *There will be no need of auction chanters and whole process be automatic* |
|  |  |
| Interfaces for your project | *[Draw layouts in the pencil tool]* |
| ***Technology*** |  |
| Programming Language | *C++/Java* |
| Platform | *Desktop Application* |