



Virtual World Projects

Proposal

Submitted By:

Hammad Ahmad

2020-CS-30

Muhammad Huzaifa Khan

2020-CS-02

Submitted To:

Mr. Samyan Qayyum Wahla

CS-261-DSA

Department of Computer Sciences
University of Engineering and Technology, Lahore

Contents

- | | |
|----------------------|-------|
| 1. Problem Statement | Pg.03 |
| 2. Attributes | Pg.03 |
| 3. Requirements | Pg.03 |
| 4. UI Design | Pg.03 |

Problem Statement:

Finding the right sorting technique for a specific type of data is a hard task to do as the time taken to sort varies from one algorithm to the other. We will be extracting data related to online projects present on different freelancing websites to apply multiple sorting techniques and study the time each algorithm takes to sort a huge amount of data (1 million data). Moreover, multiple efficient searching techniques will be used to search deep through the project details.

Attributes:

1. Title (Project Description)
2. Category (Type of Project)
3. Name (Person)
4. Project Cost
5. Project Delivery (In days)
6. Reviews (Related to the person)
7. Rating

Requirements:

- ✓ Extract 1 million project details from multiple freelancing websites.
- ✓ Option to start, pause, resume, and stop scraping.
- ✓ Progress bar showing scraping progress.
- ✓ Multiple sorting techniques on each detail of the project. (including additional non-explored techniques).
- ✓ Multiple searching techniques on the extracted data.
- ✓ Display time for each sorting technique in milliseconds (ms).

UI Design:

Sort Type	Time (ms)
Bubble	10
Insertion	13
Merge	09
Hybrid	12
Selection	15

Sr.No	Title	Category	Name	Cost (\$)	Delivery (Days)	Reviews	Ratings
1	Modern logo	Logo Design	Saba	25	2	289	4.8
2	Luxury Business logo	Logo Design	Rasheed	49	4	142	5
3	Fantastic Logo	Logo Design	Alexander	45	2	12	3.8
4	Social Media	Social Media	Smith	83	4	3	4.5
5	Tiktok PRotation	Social Media	Jerry	23	1	14	5
6	Brand Grow	Social Media	Prime	34	5	156	4.9
7	Media captions	Social Media	Harry	123	3	164	5
8	Media Manager	Social Media	Ali	45	7	12	4
9	Youtube Growth	Social Media	Sarah	76	1	2	4.4
10	facebook Likes	Social Media	Harvey	13	3	15	4.3