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As part of CSC-530- all students are expected to carry out a paper review.

This paper review will constitute 10% towards your final grades.

**Perform a SWOT analysis on the paper of your choice of listed papers found on MOODLE.**

**Please let your choice be known, if there is a conflict in choice , the Instructor will resolve it.**

# STEP ONE:

Read sections pertaining to Introduction and Related Works of your paper to glean the following information.

(DO NOT READ the methodology section of the paper)

(In you report elaborate on the following three points)

## Identify why the paper is significant:

The paper would highlight the following:

* 1. Area of application, and
  2. Define the challenge addressed by the authors of the paper (pertaining to DBMS).

## Elaborate the problem statement:

A good problem statement would

1. Emphasize the need for the suggested approach to overcome the challenge and
2. Highlight the contribution of the work in overcoming specific challenges.

## The objective and specific aims of the work:

A well-researched paper will clearly define

1. Specific Aims the research is targeted towards, and
2. Objectively reason why these aims are important or critical.

# STEP TWO:

Set the paper aside, and create a SWOT matrix, by weighting the proposed application with respect to the scope and specific aims of the paper reviewed. (In you report create the following).

Use the following guide to create the SWOT Matrix. After reading the paper, you are expected to subjectively report the following

## Strengths:

* 1. Does the scope of the paper open a potential area of research in the application domain?
  2. Advantages of using the proposed solution in the application domain.
  3. The benefits of the proposed solution to better the desired outcome.

## Weaknesses:

1. Is the identified computational problem really a DBMS problem?
2. Are the complexities addressable with reasonable infrastructure
3. Are there any alternative approaches that can be used (suggest).
4. or There is absolutely no computational problems.

## Opportunities:

1. Are the specific aims relevant to the application domain?
2. Are there any trends that are overlooked?
3. Are there better techniques that can be beneficial?

## Threats:

1. Are the specific aims really addressing a challenge relative to the future of DBMS’s?
2. Are the specific aims measurable, i.e. are they quantifiable.
3. Can we verify or validate the specific aims.

**REPORT your answers to the above questions in the following tabular format**

|  | APPLICA TION DOMAIN | COMPUTATIONAL COMPLEXITIES |
| --- | --- | --- |
| SCOPE/ PROBLEM STATEMENT | Strengths: | Weakness: |
| SPECIFIC AIMS | Opportunities: | Threats: |

# STEP THREE:

Now setting aside the matrix created, review the methodology and results and discussions sections of your paper. Read and put in context the approach followed with respect to your matrix.

## Critique:

**In you report, critique (or describe)** your observations to highlight deficiencies or overlooked aspects. Rate the proposed methodology and validation using your SWOT.

**IMPORTANT:**

**• Please turn in your reports and papers referenced (in zipped form) via Moodle.**

**• Report should be not more than two pages in length.**

**• Due Date: Feb 10th, 2022.**