

# COP290: Design Practices

## Assignment 2 - Subtask 1

3rd March 2024

### Introduction

In this assignment, we will gradually build towards a larger project. Subtask 1 needs to be done individually, while the further subtask(s) will need to be done in groups of 2. We will release details about them later.

For Assignment 2, we will not have any restrictions on programming language or framework.

### Subtask 1 [Deadline : 14th March 2024]

Subtask 1 involves developing a program to parse text from different multimedia sources. The goal is to extract text data from videos, audio files, and PDF documents.

This can be divided into three main parts:

1. **Parsing Text from Video:** This part requires developing functionality to extract transcript of video files.
2. **Parsing Text from Audio:** In this part, the objective is to transcribe text from audio files.
3. **Parsing Text from PDF:** The final part involves extracting text content from PDF documents. This requires parsing the PDF files and extracting textual data, which may include plain text or structured text elements such as paragraphs, headings, or lists.

**NOTE:** Evaluation will be done on the basis of both the quality of generated text and efficiency of code.

## Submission Details

Please adhere to the submission guidelines and ensure that your submission meets all the requirements outlined below.

1. Submissions will be through Moodle. We will share some example videos, audios and PDFs (will be shared over Piazza).
2. Submit a report containing the following details:
  - Implementation insights details: Specify the programming language and libraries/frameworks used for the development of your program. Include any methods or techniques implemented to improve the performance.
  - Issues faced: Discuss any challenges or difficulties encountered during the implementation process, inconsistencies or format compatibility issues, approach changes if any for different PDFs.
  - Results on examples shared on Piazza and test examples used by you. Submit test videos, audios and PDFs used by you in a drive folder. Add a shareable link in the report itself.
3. Evaluation will be done through demos along with further subtasks.