

CSE 323 – Software Engineering

Lab 10 & 11 – Object Oriented Software Engineering Practice

COUGH EVALUATOR APP

Lab Objective:

Over period of two labs, the students are requested to apply object-oriented software engineering principles and software layered architecture to tackle following problem:

Problem statement:

You are requested to build the front-end for a Cough Evaluator App. At minimum, the App should allow user to record their cough, then the app would use a pre-trained AI model to output the likelihood that the user could be infected by COVID-19 virus and should seek medical assistance.

Note: Your task is to develop the front end. So, you can only build the skeleton for the object that deploy the pre-trained AI-model to evaluate the incoming cough.

Instructions:

1. You are allowed to work in groups.
2. You can use any programming language to tackle this problem.
3. You are expected to demonstrate as much software engineering principles as possible but at minimum, your solution should include:
 - UML diagrams.
 - Object oriented Approach.