**CME2102 Project Based Learning IV**

**Final Project Report**

ConCube

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Introduction

Problem Definition

In this project,a program which is written by using C language efficiently to convert xml or csv or json to each other is asked.That means,a xml-json-csv convert algorithm and using this algorithm to write clear,portable,proper C language code are asked.About the program;it will be able to connect user and convert a file to another format as user wanted.User will enter only a format or a outputname with input file name(if user wants composite xml file,user will enter “-true” too).It will convert it.

Solution Strategy

To connect with user,the arguments are used.It is controlled with if statements or switch.The other fuctions reads from file,converts,prints in another file by the user request.The most important part is (acoording to the algorithm) decision.So;if statements is controlling main function.There is a command structure to store and reach easily.

Methods

There is a command structure to store and reach easily.

There is also xml structures to read from xml files.

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tasks

-from JSON file functions(to xml,csv):

Parsing xml or csv(requested input file) and creating new json object and also array;creating another object with required things and add to array.In the end,add to the first created object.

-csv to xml (with or without attributes):

reads csv file and creates a root for xml,adds another nodes to this root and saves as “input.xml”.

-arguments

takes arguments and controls.

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-from JSON file:

-xml to csv:

-arguments

algorithm of arguments

Experimentation

#include<stdio.h>

#include<string.h>

#include <libxml/parser.h>

#include <libxml/tree.h>

#include <json/json.h>

#define SIZE 250

Conclusion

We learnt C programming language and team working.

Appendix B: Screenshots

