

# GROUP PROJECT

## Automata Theory

### 1. Objectives

The goal of this project is to develop an application to manage and manipulate finite automata. You can use any programming language that you prefer.

### 2. What to Do

#### Functionalities

- a. Design a finite automaton (FA)
- b. Test if a FA is deterministic or non-deterministic
- c. Test if a string is accepted by a FA
- d. Construct an equivalent DFA from an NFA
- e. Minimize a DFA

#### Database (optional)

After designing a FA, it can be saved and stored in a database (you can also use text files). The user should also be able to manage (load, edit, delete) all saved FA's.

### 3. What to Submit

- Source code (well commented)
- Technical report
- Individual reports (individual contribution of each member)

### 4. Key Dates

- Project Start Date: 06/04/2023
- Project Deadline: 07/07/2023
- Presentation Date: TBD