



A Course Project

Course: Automata & Language Theory (CS342)
Semester: 1st **Academic Year:** 2022-2023

Students are asked to form project teams of 3 students at a maximum for each. Each team will develop DFA generic codes using the techniques learned in the class through appropriate programming languages and environments. **The developed codes should accept any DFA machine and strings, then return with the “accept” or “reject” of the input strings.**

Project Deliverables:

- Project Report: Complete documentation describing how they build their codes and at least three samples of runs and outputs.
 - Due date (28 Dec. 2022).
 - The project should be uploaded on the course portal “Microsoft Teams” by project team leaders through the project assignment.

Project Contents:

- **Title Page:** including the University and Faculty logos, project name, and team members' names.
 - **Introduction:** including paragraphs on automata and DFA machines.
 - **Machine Design:** including paragraphs on the DFA formal definitions with some illustrating examples.
 - **Machine Implementation:** including how the project codes are developed and examples of running the developed code.
 - **Appendix:** project codes.
 - **References.**
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