

CS 419 Compiler Projects Form

1) Instructions to be Followed (for the Hard Copy):

I. Fill page **NO 4** with the required Fields:

- I. Project Idea: The **Idea** will be assigned to you .
- II. Team Members NO#: Number of team members **7**
- III. Table:
 - ID: Your FCIH ID.
 - Name: Your **Full Name** as registered on College's Database.
 - Level & Department: Your (**Current**) level and department.
 - Section(Day-from-to): Your Section Day and time slot.
 - Role: Your role in project (**Team leader OR Member**).
 - Fill Page **NO 5 & 6** with your (**Regular Expressions, Finite automata, Parse trees** and **abstract syntax tree**) respectively.

2) Minus Policies:

- I. **Project Policy**: affects all projects members including team leader.
- II. **Member Policy**: affects a member of project's members.

3) General Notes:

- I. Total grade of Project is 15
- II. **Deadline** to register yourself and your team on **online form Tuesday 05/04/2022 at 11:59 PM** after that **-2 Project Policy** will be applied.
- III. Once you Registered, **NO modifications** will be done.
- IV. Allowed only on registration for team in form, duplication will got **-2 Project Policy**.
- V. Each group will be assigned **an Idea, ID and time slot** for **discussion**.
- VI. Each team member and team leader in a team **must work in project's coding phase** (including implementation of **finite automata and parse trees**).

4) Discussion Notes:

- I. **Copied Code** will be got **ZERO** Without Discussion.
- II. By references to Section 3 (General notes) Point V , **-5 Member policy** will be applied to each team member (including team leader) who does not participate in project coding phase **as well as the team leader who does not report this case.**
- III. Each team member must have **a complete knowledge** about the whole project
- IV. **Evaluation** will be **Individual Evaluation** not project Evaluation.
- V. **-2 Project Policy** will be applied in case of being late for assigned discussion time slot
- VI. **NO discussion will be repeated under any circumstances.**
- VII. At Discussion day, in case of offline discussions, each team must have **Hard Copy form** including (**Finite automata and parse trees of team's project**).
- VIII. Discussion Day will be **sent later** .

5) Notes about Implementation:

- I. **.Net or PHP** are only allowed.
- II. The project must be a **Web (use latest technologies)**.
- III. Your code must be uploaded to github before discussion.
- IV. **- 5 Project policy** will be applied in case of using **Built-in Method** within implementation of the scanner or parser, you must create your **own methods to match** for ex (your regular Expressions).
- V. Each Project must contain a full functional editor (comment, uncomment, put red line under wrong words, auto complete, navigation to function or class, line NO).

- VI. Each Project must contain **two buttons** , one button called “**Scan**” to run scanner and other called “**Parse**” to run parser –parser must take output of scanner to do it’s task.
- VII. Each project must contain a button named “**Browse**” that allows us to choose a **file from a disk** that allows us to parse or scan this file **Without Showing what is inside the file** and shows the output.
- VIII. – 3 Project policy will be applied if the content of the file that is mentioned in point V is opened or viewed.

5) Notes about Discussion Testing:

- There will be two types of Testing :
 - I. **White Box Testing:** This will be from **Editor**.
 - II. **Black Box Testing:** This will be from “**Browse**” Button

Thanks,

CS 419 Compiler

Project Form

Project Idea:

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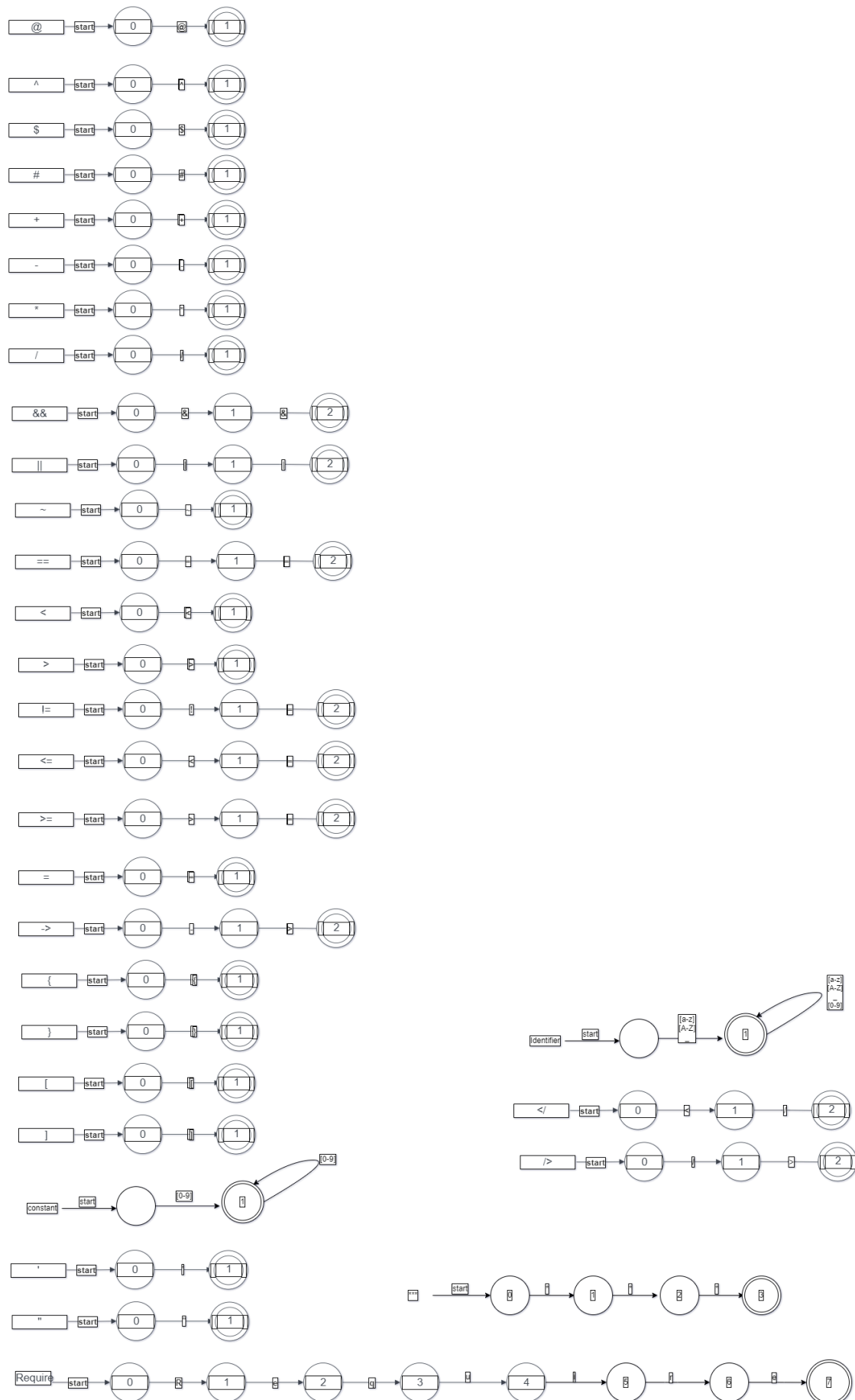
Team Members NO#:

ID	Name	Level & Department	Section (Day-from-to)	Role (Lead/Member)	Grade
201900423	عبدالرحمن عصام الدين محمد محمد محمد مغازي				
201900689	محمد شعبان هاشم احمد				
201900465	عبدالله فتحي سيد محمد عليوه				
201900515	عمر عبد الحميد سيد عبد الحميد				
201900486	علي حسن علي هريدي				
201900326	زياد فايز محمود عوض الله				
201900529	عمر محمد عبدالرحمن				

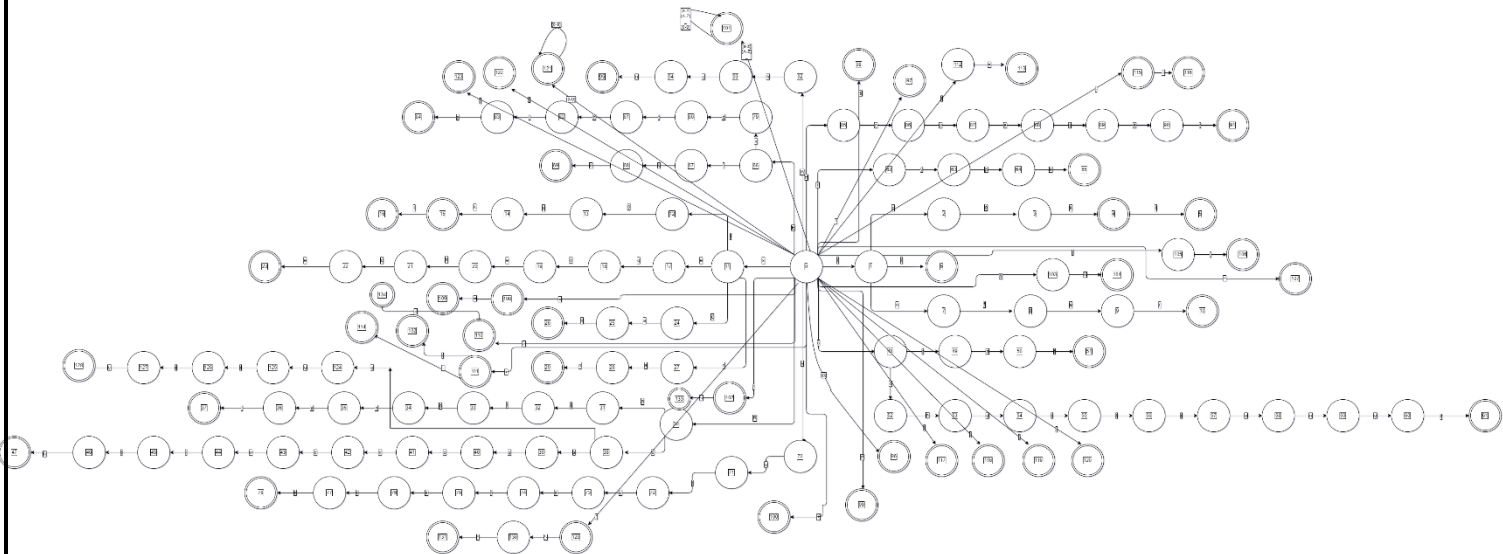
Regular Expression, Finite automata and Conversion from RegX to NFA, NFA to DFA

NFA



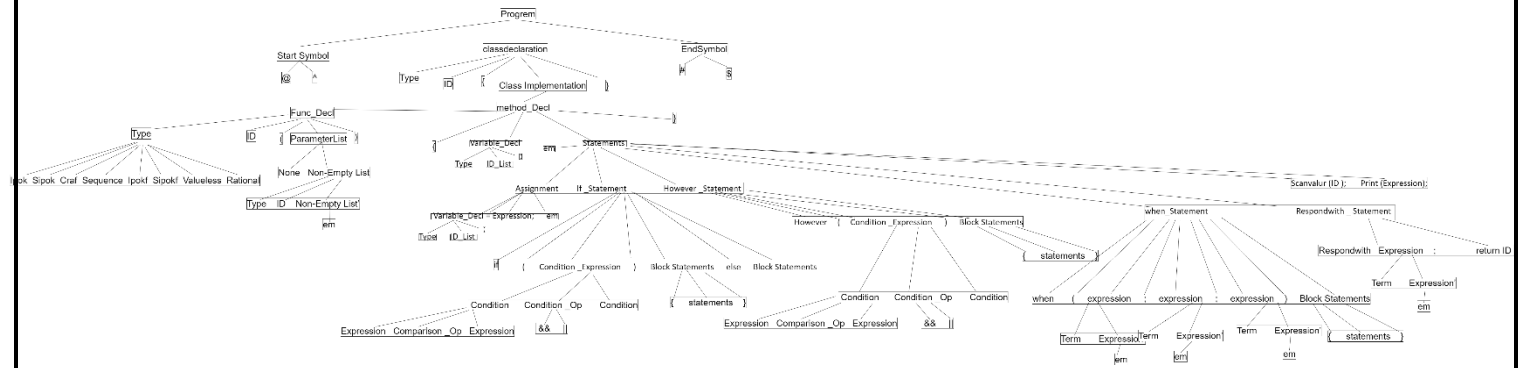


DFA



Parse tree and Abstract syntax tree

Parse Tree



AST

