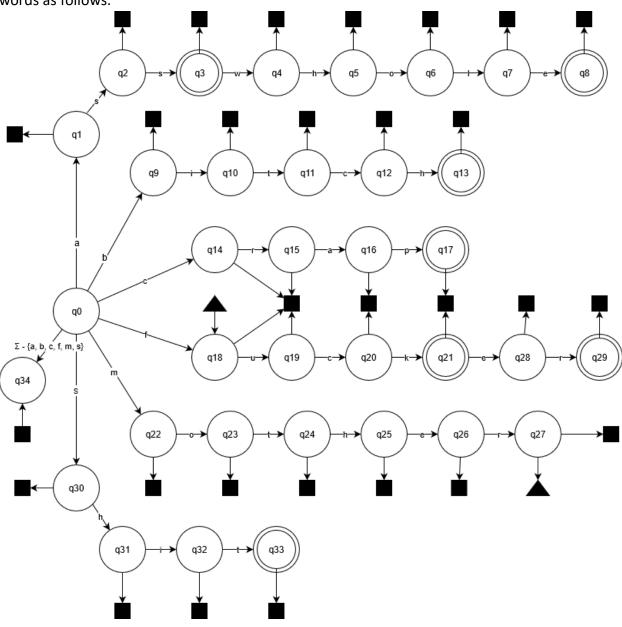
Project Profanity Filter

Milestone

This project has changed from the original idea of creating a DFA for a maze. My reasoning for changing my project is because I wasn't to enthusiastic on making a DFA for a maze and it seemed like a pretty linear DFA. As such I decided to work on a Profanity filter instead. The baseline for this idea is to get a statically defined DFA for a set of words I have chosen. I chose a set of seven words. I created the DFA and transition table for the chosen words as follows.



The black squares represent a transition to the error state q34 and having seven words produces 34 states.

The table below shows how the delta transition matrix used to transitions to different states.

	а	b	С	d	е	f	g	h	i	j	k	ı	m	n	0	р	q	r	s	t	u	v	w	х	у	z
q0	q1	q9	q14	q34	q34	q18	q34	q34	q34	q34	q34	q34	q22	q34	q34	q34	q34	q34	q30	q34						
q1	q34	q2	q34																							
q2	q34	q3	q34																							
q3	q34	q4	q34	q34	q34																					
q4	q34	q5	q34																							
q5	q34	q6	q34																							
q6	q34	q7	q34																							
q7	q34	q34	q34	q34	q8	q34																				
q8	q34																									
q9	q34	q10	q34																							
q10	q34	q11	q34	q34	q34	q34	q34	q34																		
q11	q34	q34	q12	q34																						
q12	q34	q13	q34																							
q13	q34																									
q14	q34	q15	q34																							
q15	q16	q34																								
q16	q34	q17	_	q34																						
q17	q34																									
q18	q34	_	q34	q34	q34	q19	q34	q34	q34	q34	q34															
q19	q34	q34	q20	q34																						
q20	q34	q21	q34																							
q21	q34	q34	q34	q34	q28	q34																				
q22	q34	q23	q34																							
q23	q34	q24	q34	q34	q34	q34	q34	q34																		
q24	q34	q25	q34																							
q25	q34	q34	q34	q34	q26	q34																				
q26	q34	q27	q34																							
q27	q34	q34	q34	q34	q34	q18	q34																			
q28	q34	q29	q34																							
q29	q34	q34	q34	q34	q34	•	q34	q34	q34	_	q34	q34	q34	q34	q34	q34	_	q34								
q30	q34	q34	q34	q34	q34	•	q34	q30	q34	_	q34	q34	q34	q34	q34	q34	_	q34								
q31	q34	q31	q34	_	q34																					
q32	q34	q32	q34	q34	q34	q34	q34	q34																		
q33	q34																									

If I can get this DFA working statically I plan to add flexibility to the DFA. The way I propose to add flexibility is to create a transition function that dynamically creates the delta matrix given a list of words provided as input.