Weekly Review
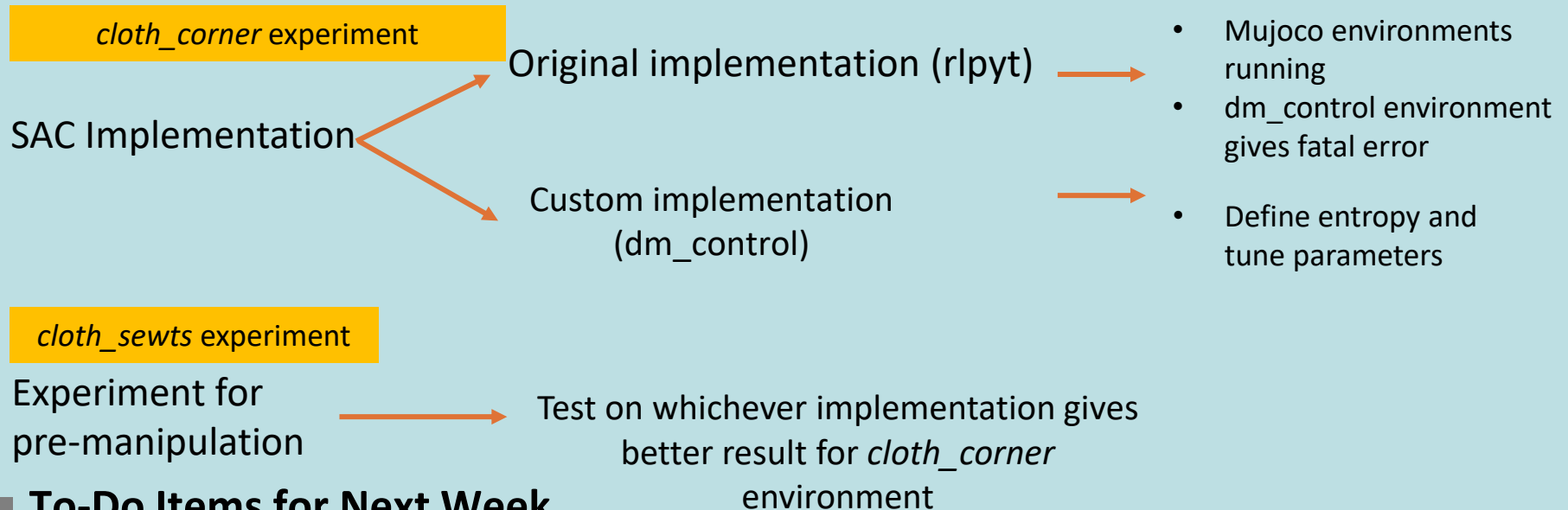
Tasks

- Solve NaN problem (Root-cause : Entropy definition) ✓
- Make original repository run on Gaming Machine (Mujoco standalone license) ✗

Problems

cloth_corner experiment

SAC Implementation → Original implementation (rlpyt)
- Mujoco environments running
- dm_control environment gives fatal error

SAC Implementation → Custom implementation (dm_control)
- Define entropy and tune parameters

cloth_sewts experiment

Experiment for pre-manipulation → Test on whichever implementation gives better result for cloth_corner environment

To-Do Items for Next Week

- Get robust implementation on cloth_corner experiment
- Test cloth_sewts experiment

Plan update

S. No.	Date	Change	Reason

V3	04/05/2021	**Planned**
		Phase 3 : Implementation : 74 days (mid Feb- end Apr)
		  e) Setting up the Reinforcement Learning Platform and Simulation environment : 13 days
		  f) Prepare a custom implementation taking existing states, actions, rewards : 9 days
		  g) Redefine actions and rewards for our use case : 15 days
		  h) Test the pipeline and iterate : 15 days
		    (+22 days for g) and h))
		
		Phase 4 (Additional): Sim-to-real transfer : 31 days (May)
		  Master's Thesis Registration
		  h) Perform domain randomization : 7 days
		  i) Transfer to real robot : 21 days
		
		Update
		Phase 3 : Implementation : 74+30 days (mid Feb- end May)
		  e) Setting up the Reinforcement Learning Platform and Simulation environment : 13 days
		  f) Prepare a custom implementation taking existing states, actions, rewards : 9 days
		  g) Redefine actions and rewards for our use case : 15 days
		  h) Test the pipeline and iterate : 15 days
		    (+30 days for g) and h))
			Sim-to-real transfer eliminated because of no robust result from sim implementation

THANK YOU