Rensselaer Polytechnic Institute

http://

Project manager

Project dates Oct 12, 2021 - Aug 9, 2022

Completion0%Tasks43Resources0

Tasks

Represent ST-Model Use Case components as clinical reasoning rules 10/12/21 12/28/21	
Review Diabetes KB Use cases 10/12/21 10/29/21	
Diabetes abductive reasoning work by Julia and Martin does not actually include a KB	
Weight gain Scenario Representation 10/14/21 11/8/21 Start with this, show that the full workflow can be achieved with this example	
Differential Diagnosis Representation Type 1 and Type 2 Diabetes Likely super simple at first Patient may have other comorbidities that have to be considered aside from diabetes (hints at the need to provide more of a differential) 11/9/21 12/2/21	
Therapy Planning Representation 11/25/21 12/23/21	
Recommended treatment based on guidelines (for type 2) Will take a while to ingest all the ADA info	
Plan Critiquing Representation Considerations 12/15/21 12/28/21	
Won't be able to test in scenario given to clinicians (won't be evaluated) Can consider but we won't test Describe components/aspects of the plan we are critiquing	
Incorporation of Abductive Reasoner Agent 10/28/21 1/10/22	
Determine method for specifying abductive query Complex AAA Abduction observation forms p: not(C1) p: and(C1,C2) p: or(C1,C2) p: some(R,C1) p: all(R,C1) Complex concepts: p: and(Patient, some(hasSymptom,S1))	
Incorporate the use of the AAA reasoner on the subset of triples 11/15/21 12/6/21	
Create converter from AAA reasoner output to a set of triples to be input 12/6/21 12/23/21 back into the graph	
Create nanopublication with triples include some form of provenance 12/22/21 1/10/22	
Demo of weight gain use case 11/19/21 11/24/21	
Testing 1/3/22 2/18/22	
Testing of Weight gain Scenario Representation 1/3/22 1/7/22	
Clinical reasoning axiom deductive output validation 1/7/22 1/14/22	

2

3

Tasks

Name	Begin date	End date	
Abductive reasoning output validation	1/17/22	1/24/22	
Testing of chaining between deductive and abductive components	1/24/22	2/10/22	
Abductive triple population validation	2/1/22	2/18/22	
Clinical UI Integration	2/1/22	4/7/22	
Calendar Completion	2/1/22	2/14/22	
Dashboard Setup	2/14/22	2/25/22	
Reasoning Integration into UI	2/28/22	3/11/22	
Alignment with Vue framework	3/10/22	3/29/22	
Clinical UI Demo	3/30/22	4/7/22	
Relevance evaluation	1/11/22	4/11/22	
IRB Submission	1/11/22	2/17/22	
Metrics and survey/Protocol creation	1/11/22	1/19/22	
Scaffolding/chunks for testing	1/20/22	2/17/22	
Consent documents	1/20/22	1/28/22	
Software list/study instruments	1/28/22	2/7/22	
Survey	1/20/22	2/17/22	
Clinician search	2/18/22	3/11/22	
Conduction of evaluation	3/14/22	4/11/22	
Review/refinement	4/12/22	5/18/22	
Review programming and representation components Review feedback for UI as well as general comments from Clinicians Pilot UI before showing to clinicians so we are not wasting time on visuals			
Review representation components	4/12/22	4/25/22	
Review programming components	4/12/22	4/25/22	
Review feedback for UI As well as general comments from Clinicians	4/25/22	5/6/22	
Incorporate remaining feedback and refine integration	5/5/22	5/18/22	

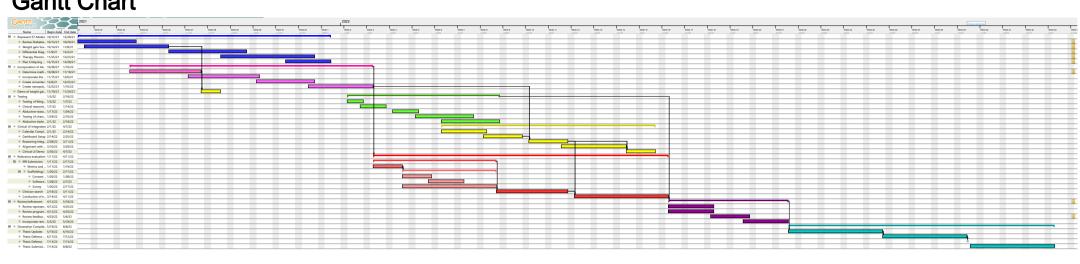
Tasks

Name	Begin date	End date	
Disseration Completion	5/19/22	8/8/22	
Thesis Updates	5/19/22	6/16/22	
Thesis Defense Preparation	6/17/22	7/12/22	
Thesis Defense	7/13/22	7/13/22	
Thesis Submission	7/14/22	8/8/22	

4

5

Gantt Chart



Resources Chart

6

