

Thesis Timeline

Oct 26, 2021

Rensselaer Polytechnic Institute

<http://>

Project manager

Project dates

Oct 12, 2021 - Aug 9, 2022

Completion

0%

Tasks

43

Resources

0

Tasks

Name	Begin date	End date
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
<i>Diabetes abductive reasoning work by Julia and Martin does not actually include a KB</i>		
Weight gain Scenario Representation	10/14/21	11/8/21
<i>Start with this, show that the full workflow can be achieved with this example</i>		
Differential Diagnosis Representation	11/9/21	12/2/21
<i>Type 1 and Type 2 Diabetes</i>		
<i>Likely super simple at first</i>		
<i>Patient may have other comorbidities that have to be considered aside from diabetes (hints at the need to provide more of a differential)</i>		
Therapy Planning Representation	11/25/21	12/23/21
<i>Recommended treatment based on guidelines (for type 2)</i>		
<i>Will take a while to ingest all the ADA info</i>		
Plan Critiquing Representation Considerations	12/15/21	12/28/21
<i>Won't be able to test in scenario given to clinicians (won't be evaluated)</i>		
<i>Can consider but we won't test</i>		
<i>Describe components/aspects of the plan we are critiquing</i>		
Incorporation of Abductive Reasoner Agent	10/28/21	1/10/22
Determine method for specifying abductive query	10/28/21	11/18/21
<i>Complex AAA Abduction observation forms</i>		
<i>p: not(C1)</i>		
<i>p: and(C1,C2)</i>		
<i>p: or(C1,C2)</i>		
<i>p: some(R,C1)</i>		
<i>p: all(R,C1)</i>		
<i>Complex concepts: p: and(Patient, some(hasSymptom,S1))</i>		
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 back into the graph	12/6/21	12/23/21
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

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
<i>Review programming and representation components</i>		
<i>Review feedback for UI as well as general comments from Clinicians</i>		
<i>Pilot UI before showing to clinicians so we are not wasting time on visuals</i>		
Review representation components	4/12/22	4/25/22
Review programming components	4/12/22	4/25/22
Review feedback for UI	4/25/22	5/6/22
<i>As well as general comments from Clinicians</i>		
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

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Gantt Chart



