### McMaster, CAS Department

Project manager

**Project dates** 4-Sep-2017 - 7-Dec-2017

Completion0%Tasks63Resources3

Simulation of temperature over time for a solar water heating tank incorporating phase change material (PCM).

# Tasks

Name	Begin date	End date	Role	
Write Design Doc	03/11/17	06/11/17	Leader	
MG	03/11/17	04/11/17	Leader	
Schedule	03/11/17	06/11/17	Leader	
MIS	05/11/17	06/11/17	Leader	
Implementation	07/11/17	11/11/17	Leader	
Input Hiding Module	07/11/17	11/11/17	Leader	
Input Parameter Module	07/11/17	11/11/17	Leader	
Output Format Module	07/11/17	11/11/17	Leader	
Temperature ODEs Module	07/11/17	11/11/17	Leader	
Energy Equations Module	07/11/17	11/11/17	Leader	
Control Module	07/11/17	11/11/17	Leader	
System Testing	15/11/17	17/11/17	Leader	
Rev 0 Demo	18/11/17	18/11/17	Leader	
Revise SRS	06/11/17	11/11/17	Leader	
New Requirements	09/11/17	11/11/17	Leader	
Design Doc Due	06/11/17	06/11/17	Leader	
Requirements Document Revision 0	06/10/17	06/10/17	Leader	
Revise Test Plan	19/11/17	20/11/17	Leader	
Testing	12/11/17	27/11/17	Leader	
Usability Test	23/11/17	25/11/17	Leader	
Second Usability Test	14/11/17	18/11/17	Leader	
Unit Testing	12/11/17	15/11/17	Leader	
Input Hiding Module	12/11/17	15/11/17	Leader	
Input Parameter Module	12/11/17	15/11/17	Leader	

3

## Tasks

Name	Begin date	End date	Role	
Output Format Module	12/11/17	15/11/17	Leader	
Temperature ODEs Module	12/11/17	15/11/17	Leader	
Testing UI	21/11/17	21/11/17	Leader	
Testing Functionality	12/11/17	12/11/17	Leader	
Testing PoC	27/11/17	27/11/17	Leader	
Revise MG	20/11/17	21/11/17	Leader	
Revise MIS	20/11/17	21/11/17	Leader	
Revise Implementation	20/11/17	21/11/17	Leader	
Test Report Due	27/11/17	27/11/17	Leader	
Prepare Final Demo	26/11/17	30/11/17	Leader	
Final Demo	01/12/17	01/12/17	Leader	
Revise Existing Documentation	07/11/17	06/12/17	Leader	
Final Doc Due	06/12/17	06/12/17	Leader	
Requirements Document Rev 0	10/11/17	10/11/17	Leader	
Proof of Concept Demonstration	16/10/17	20/10/17	Leader	
Lab Exercises	04/09/17	22/11/17	Leader	
Final Demonstration (Revision 1)	27/11/17	01/12/17	Leader	
Peer Eval of Other Teams Final Demo	27/11/17	01/12/17	Leader	
Test Plan Revision 0	27/10/17	27/10/17	Leader	
Design & Document Revision 0	01/11/17	01/11/17	Leader	
Revision 0 Demonstration	08/11/17	08/11/17	Leader	
Final Documentation (Revision 1)	10/11/17	06/12/17	Leader	
Problem Statement	17/11/17	06/12/17	Leader	
Development Plan	21/11/17	06/12/17	Leader	
Requirements Document	24/11/17	06/12/17	Leader	
Design Document	24/11/17	06/12/17	Leader	
Test Plan	10/11/17	21/11/17	Leader	

## Tasks

Name	Begin date	End date	Role	
Test Report	24/11/17	05/12/17	Leader	
Users Guide (optional)	04/12/17	04/12/17	Leader	
Source Code	10/11/17	04/12/17	Leader	
Modules	10/11/17	14/11/17	Leader	
M1 Input	10/11/17	10/11/17	Leader	
M2 Request Testing	14/11/17	14/11/17	Leader	
M3 User Profile	12/11/17	12/11/17	Leader	
M4 Data Processing	11/11/17	11/11/17	Leader	
M5 Network	11/11/17	11/11/17	Leader	
M7 Request Test Structure	13/11/17	13/11/17	Leader	
M6 Test Flow	12/11/17	12/11/17	Leader	
M8 Output	10/11/17	10/11/17	Leader	

4

5

### Resources

Name	Default role	Assignment role	
Dawson Myers	Project Leader		
Yang Liu	Scribe		
Brandon Roberts	Developer		

### **Gantt Chart**

GANTT	$\succ \subset$	>		2017
project	<b>&gt;</b>			[Lab Exercises] Requirements Document Revisio[Test Plan Revis]Design Doc Duelsion (I) Demo(RTest Report DiFinal Doc Due)
Name	Begin date	e End date	Role	Week 34 Week 35 Week 36 Week 37 Week 38 Week 39 Week 40 Week 41 Week 42 Week 43 Week 44 Week 45 Week 46 Week 47 Week 48 Week 49 Week 50 Week 51 Week 52 Week 1 Week 2 Week 2 Week 1 Week 2 Week 36 Week 36 Week 49 Week 49 Week 50 Week 51 Week 52 Week 1 Week 2 Week 40 Week
□ Write Design Doc	03/11/17	06/11/17	Leader	2010817 27/0817 03/0917 10/0917 17/0917 24/09/17 01/10/17 08/10/17 15/10/17 22/10/17 29/10/17 05/11/17 12/11/17 19/11/17 26/11/17 03/12/17 10/12/17 17/12/17 24/12/17 31/12/17 07/01/18 14/01/
MG	03/11/17	04/11/17	Leader	
Schedule	03/11/17	06/11/17	Leader	
MIS	05/11/17	06/11/17	Leader	
■ Implementation	07/11/17	11/11/17	Leader	
System Testing	15/11/17	17/11/17	Leader	
Rev 0 Demo	18/11/17	18/11/17	Leader	*
□ • Revise SRS	06/11/17	11/11/17	Leader	
New Requirements	09/11/17	11/11/17	Leader	
Design Doc Due	06/11/17	06/11/17	Leader	•
Requirements Document Revision		06/11/17	Leader	*
Revise Test Plan	19/11/17	20/11/17	Leader	
□ • Testing	12/11/17	27/11/17	Leader	
<ul> <li>Usability Test</li> </ul>	23/11/17	25/11/17	Leader	
Second Usability Test	14/11/17	18/11/17	Leader	
□ • Unit Testing	12/11/17	15/11/17	Leader	, T
<ul> <li>Input Hiding Module</li> </ul>	12/11/17	15/11/17	Leader	
<ul> <li>Input Parameter Module</li> </ul>	12/11/17	15/11/17	Leader	
<ul> <li>Output Format Module</li> </ul>	12/11/17	15/11/17	Leader	
<ul> <li>Temperature ODEs Module</li> </ul>	12/11/17	15/11/17	Leader	
<ul><li>Testing UI</li></ul>	21/11/17	21/11/17	Leader	
<ul> <li>Testing Functionality</li> </ul>	12/11/17	12/11/17	Leader	
<ul> <li>Testing PoC</li> </ul>	27/11/17	27/11/17	Leader	
<ul><li>Revise MG</li></ul>	20/11/17	21/11/17	Leader	
<ul><li>Revise MIS</li></ul>	20/11/17	21/11/17	Leader	
<ul> <li>Revise Implementation</li> </ul>	20/11/17	21/11/17	Leader	
<ul> <li>Test Report Due</li> </ul>	27/11/17	27/11/17	Leader	<b>♦</b>
Prepare Final Demo	26/11/17	30/11/17	Leader	
Final Demo	01/12/17	01/12/17	Leader	•
Revise Existing Documentation	07/11/17	06/12/17	Leader	
Final Doc Due	06/12/17	06/12/17	Leader	•
Requirements Document Rev 0	10/11/17	10/11/17	Leader	*
<ul> <li>Proof of Concept Demonstration</li> </ul>	16/10/17	20/10/17	Leader	
Lab Exercises	04/09/17	22/11/17	Leader	
Final Demonstration (Revision 1)		01/12/17	Leader	
Peer Eval of Other Teams Final De		01/12/17	Leader	
Test Plan Revision 0	27/10/17	27/10/17	Leader	*
Design & Document Revision 0	01/11/17	01/11/17	Leader	*
Revision 0 Demonstration	01/11/17	08/11/17	Leader	
Final Documentation (Revision 1)		06/12/17	Leader	
Problem Statement	17/11/17	06/12/17	Leader	
Development Plan	21/11/17	06/12/17	Leader	
•				
Requirements Document     Design Document	24/11/17	06/12/17	Leader	
Design Document	24/11/17	06/12/17	Leader	
Test Plan	10/11/17	21/11/17	Leader	
Test Report	24/11/17	05/12/17	Leader	
<ul> <li>Users Guide (optional)</li> </ul>	04/12/17	04/12/17	Leader	
Source Code	10/11/17	04/12/17	Leader	
□ • Modules	10/11/17	14/11/17	Leader	
M1 Input	10/11/17	10/11/17	Leader	
<ul> <li>M2 Request Testing</li> </ul>	14/11/17	14/11/17	Leader	
		12/11/17	Leader	
M3 User Profile	12/11/17			
M3 User Profile     M4 Data Processing	12/11/17 11/11/17	11/11/17	Leader	
			Leader Leader	
<ul> <li>M4 Data Processing</li> </ul>	11/11/17	11/11/17		
<ul><li>M4 Data Processing</li><li>M5 Network</li></ul>	11/11/17 11/11/17	11/11/17 11/11/17	Leader	

6

### **Resources Chart**

GANTT			2017	Requirements Document Revisio Test Plan Revis Design Doc Dueents Document Rev 0  Report D Final Doc Due												2018								
Name	Default role	Assignment role											Week 44											Week 3 14/01/18
Dawson Myers	Project Leader	,g	20/00/17	21/00/17	5%	10/09/17	17705717	24/09/11	01/10/17	00/10/17	38%	5%	5%	03/11/17	12/11/17	19/11/17	34%	19%	10/12/17	11112111	24/12/11	31/12/11/	07/01/18	14/01/10
	Scribe				5%						38%	5%	5%		76%		99%							
Brandon Roberts	Developer				5%						38%	5%	5%		83%		99%	51%						