PCM Apr 12, 2021

#### McMaster, CAS Department

Project manager

**Project dates** Feb 3, 2021 - Apr 13, 2021

Completion0%Tasks45Resources3

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

## Tasks

Name	Begin date	End date
Development Plan	2/3/21	2/4/21
Development Plan Due	2/5/21	2/5/21
Write Design Doc	2/8/21	2/13/21
Design Doc Due	2/10/21	2/10/21
Implementation	2/15/21	2/23/21
Frontend Development	2/15/21	2/23/21
Backend Development	2/15/21	2/23/21
Proof of Concept Demo	2/24/21	2/24/21
Implementation #2	2/24/21	3/11/21
Fix block falling issue	2/24/21	3/11/21
Fix rotating issue	2/24/21	3/11/21
Frontend Improvement	2/24/21	3/11/21
Test Plan Revision 0	2/24/21	3/11/21
Testing	3/12/21	3/16/21
Testing Functional Requirements	3/12/21	3/16/21
Testing Hit Detection	3/12/21	3/14/21
Testing Game Executability	3/12/21	3/12/21
Testing Initial Conditions	3/12/21	3/13/21
Testing Block Movement	3/12/21	3/14/21
Testing Score System	3/15/21	3/15/21
Testing Game Over	3/16/21	3/16/21
Testing Nonfunctional Requirements	3/15/21	3/16/21
Design and Document Revision 0	3/12/21	3/17/21

# Tasks

Name	Begin date	End date		
Module Implementation	3/18/21	3/23/21		
M1 - Andrew	3/18/21	3/18/21		
M2 - Abraham	3/18/21	3/19/21		
M3 - Abraham	3/18/21	3/20/21		
M4 - Andrew	3/18/21	3/20/21		
M5 - Abraham	3/18/21	3/19/21		
M6 - Ali	3/18/21	3/20/21		
M7 - Ali	3/18/21	3/21/21		
M8 - Team	3/18/21	3/22/21		
M9 - Team	3/18/21	3/23/21		
M10 - Team	3/18/21	3/23/21		
Revision 0 Demo	3/24/21	3/24/21		
Additional Testing	3/29/21	4/6/21		
Final Demonstration Revision 1	4/7/21	4/7/21		
Final Doc Revision 1	4/9/21	4/12/21		
Problem Statement Rev 1	4/9/21	4/12/21		
Development Plan Rev 1	4/9/21	4/12/21		
Requirements Document Rev 1	4/9/21	4/12/21		
Test Plan Rev 1	4/9/21	4/12/21		
Test Report	4/11/21	4/12/21		
Source Code Revision	4/9/21	4/12/21		
Gantt Chart Revision	4/12/21	4/12/21		

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## Resources

Name	Default role
Abdallah Taha	Developer
Ali Tabar	Developer
Andrew Carvalino	Developer

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## **Gantt Chart**

GANTI		<b>_</b>	February 2024 Development Plan Due	Due Proof of Concept Demo March 2021					Revisio	n 0 Demo	April 2021 Final Demonstration Revision 1		
project			Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17
Name	Begin date		2/7/21	2/14/21	2/21/21	2/28/21	3/7/21	3/14/21	3/21/21	3/28/21	4/4/21	4/11/21	4/18/21
Development Plan	2/3/21	2/4/21											
<ul> <li>Development Plan Due</li> </ul>	2/5/21	2/5/21	•										
Write Design Doc	2/8/21	2/13/21											
<ul><li>Design Doc Due</li></ul>	2/10/21	2/10/21											
☐ ■ Implementation	2/15/21	2/23/21											
<ul> <li>Frontend Development</li> </ul>	2/15/21	2/23/21											
<ul> <li>Backend Development</li> </ul>	2/15/21	2/23/21											
Proof of Concept Demo	2/24/21	2/24/21			<u> </u>			_					
☐ ■ Implementation #2	2/24/21	3/11/21											
Fix block falling issue	2/24/21	3/11/21											
<ul> <li>Fix rotating issue</li> </ul>	2/24/21	3/11/21											
<ul> <li>Frontend Improvement</li> </ul>	2/24/21	3/11/21											
Test Plan Revision 0	2/24/21	3/11/21											
☐ ● Testing	3/12/21	3/16/21											
☐ ● Testing Functional Requirements		3/16/21											
<ul> <li>Testing Hit Detection</li> </ul>	3/12/21	3/14/21											
<ul> <li>Testing Game Executability</li> </ul>	3/12/21	3/12/21											
<ul> <li>Testing Initial Conditions</li> </ul>	3/12/21	3/13/21											
<ul> <li>Testing Block Movement</li> </ul>	3/12/21	3/14/21											
<ul> <li>Testing Score System</li> </ul>	3/15/21	3/15/21											
<ul> <li>Testing Game Over</li> </ul>	3/16/21	3/16/21											
<ul> <li>Testing Nonfunctional Requirement</li> </ul>		3/16/21											
<ul> <li>Design and Document Revision 0</li> </ul>	3/12/21	3/17/21											
☐ ● Module Implementation	3/18/21	3/23/21											
M1 - Andrew	3/18/21	3/18/21											
<ul><li>M2 - Abraham</li></ul>	3/18/21	3/19/21											
M3 - Abraham	3/18/21	3/20/21											
<ul><li>M4 - Andrew</li></ul>	3/18/21	3/20/21											
M5 - Abraham	3/18/21	3/19/21											
M6 - Ali	3/18/21	3/20/21											
<ul><li>M7 - Ali</li></ul>	3/18/21	3/21/21											
<ul><li>M8 - Team</li></ul>	3/18/21	3/22/21											
<ul> <li>M9 - Team</li> </ul>	3/18/21	3/23/21											
<ul><li>M10 - Team</li></ul>	3/18/21	3/23/21											
<ul><li>Revision 0 Demo</li></ul>	3/24/21	3/24/21							•				
<ul> <li>Additional Testing</li> </ul>	3/29/21	4/6/21											
<ul> <li>Final Demonstration Revision 1</li> </ul>	4/7/21	4/7/21									•		
☐ ● Final Doc Revision 1	4/9/21	4/12/21											
Problem Statement Rev 1	4/9/21	4/12/21											
<ul> <li>Development Plan Rev 1</li> </ul>	4/9/21	4/12/21											
<ul> <li>Requirements Document Rev 1</li> </ul>	4/9/21	4/12/21											
<ul> <li>Test Plan Rev 1</li> </ul>	4/9/21	4/12/21											
<ul><li>Test Report</li></ul>	4/11/21	4/12/21											
<ul> <li>Source Code Revision</li> </ul>	4/9/21	4/12/21											
<ul> <li>Gantt Chart Revision</li> </ul>	4/12/21	4/12/21											

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#### **Resources Chart**

February 2024  Development Plan Due					Proof of Concept Demo March 2021				Revision 0 Demo April 2021 Final Demonstration Revision 1				
Name	Default role		Week 7	Week 8 2/14/21	Week 9 2/21/21	Week 10 2/28/21	Week 11 3/7/21	Week 12 3/14/21	Week 13 3/21/21	Week 14 3/28/21	Week 15 4/4/21	Week 16 4/11/21	Week 17 4/18/21
Abdallah Taha	Developer	34%	33% 66% 33%	99%	A1A1/A1	ALANI A. J.	50774.3	M 1404.1	MA. 1/4.1	SCALLE !	7)7)6.1	***************************************	41021
Ali Tabar	Developer	33%	33% 66% 33%	99%				200%					
⊕ Andrew Carvalino	Developer	33%	33% 66% 33%	99%				200%					