

# Contents

Analysis	1
Introduction	1
Research	1
Modelling	1
Prototype	3
Final Objectives	3
Design	4
Mechanics	4
Mathematical Structures	4
Bodies	5
PlanetarySystem	6
Graphics	7
SystemView	7
Camera	8
UI	9
Save/Load	10
Input	10
Pausing	11
Control Flowchart	11
Class Diagram	12
Tests	13
Vector/Matrix	13
Body/OrbitalElements	13
PlanetarySystem	14
System Tests	14
Test Screenshot/Videos	15
Evaluation	15
Interview	15
Objective Analysis	16
Conclusion	17
Appendices	>17