# Trapomino Project Plan

 ${\it Michael Peterson, Jack Bauman, Patrick Edelen, Alexis \ Lopez}$ 

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### Part I -- Scope Management

Trapomino is a Tetris based game where the player takes on the role of a zoo keeper trying to recapture escaped animals. By rotating and placing tetromino blocks on a grid, the player must catch animals by creating "cages" with the shapes. The player must capture a variety of animals, each with different abilities that challenge the player in new ways. The player will advance through stages of increasing difficulty and new sets of animals until he reclaims all of the escaped animals.

## Part II -- Requirements Management

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#### **Function**

#### **Abstract**

Trapomino is a Tetris based game where the player takes on the role of a zoo keeper trying to recapture escaped animals. By rotating and placing tetromino blocks on a grid, the player must catch animals by creating "cages" with the shapes. The player must capture a variety of animals, each with different abilities that challenge the player in new ways. The player will advance through stages of increasing difficulty and new sets of animals until he reclaims all of the escaped animals.

### Gameplay

Trapomino throws back to Tetris and Dr. Mario, with one major game mechanic change; instead of trying to create full lines with the blocks, the blocks are used to make shapes that contain animals on the screen. The blocks will not disappear which gives the animals the opportunity to escape. The robust AI will create a challenge that keeps the player on his or her toes in a new exciting way.

#### **Enemies**

The animals' AI will work in different ways to escape. Monkeys will jump higher than other animals. Beavers will chew through blocks. Rhinos will knock down blocks. Lions will attempt to eat other animals that the player must protect.

#### **Interface**

Navigation in Trapomino will be accomplished through three primary menus: a main menu, a level menu and a pause menu. The player will be greeted by a title screen displaying the studio and publisher name. A main menu will come available with the options "new game," "load game," "options," "credits," and "exit." Once the game is entered a level menu will display

the levels on a subway style map. The map will have unique levels with unique designs and sets of animals to face. A pause menu will be available in each level which will contain the options "resume," "save," "options," and "exit."

### Multiplayer

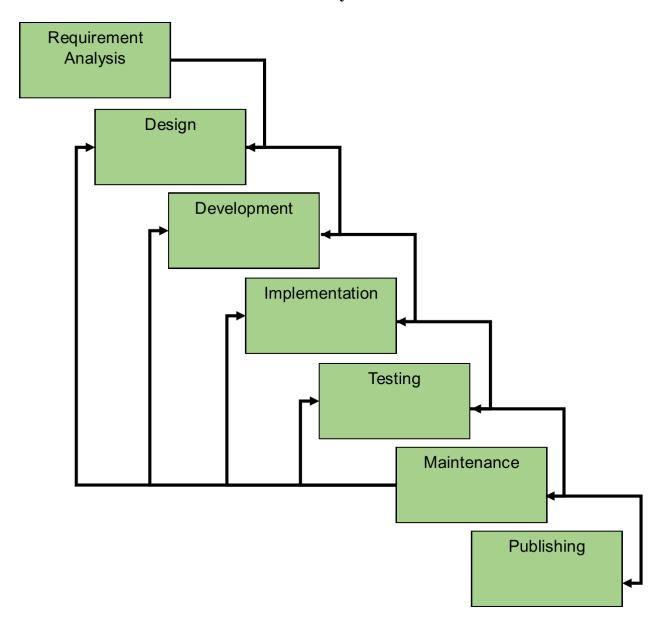
Multiplayer capability will also be featured in Trapomino, allowing the player to compete both head-to-head with other players in live mode, and collectively with a leaderboard showing the total number of points a player has accumulated during his or her playthrough. In live mode, the player will send animals to the second player by caging them. One player will win by causing the other player to run out of space on the grid, or by trapping all of the animals on his grid. The multiplayer mode will be unlocked by finishing the tutorial modes, and can be played in a split screen environment.

### Storyboard

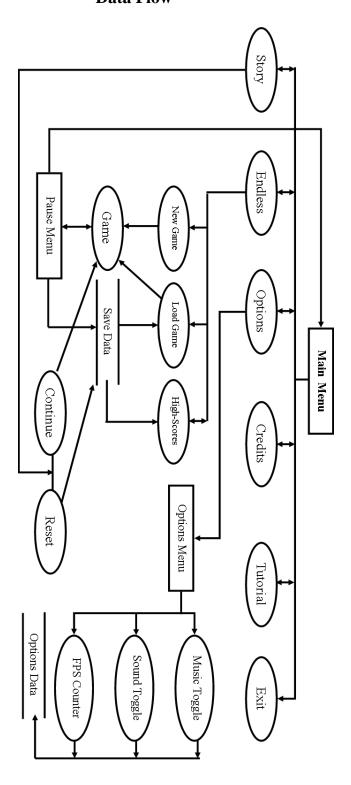


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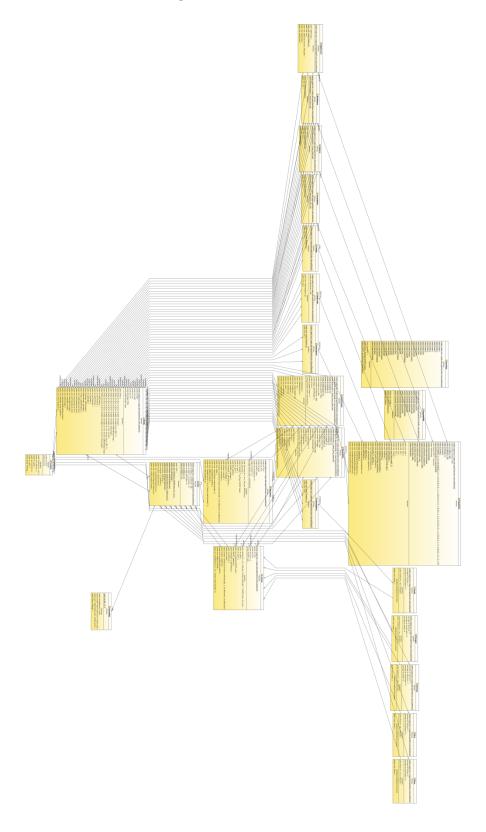
Life Cycle



**Data Flow** 



## UML



## Part III -- Schedule Management

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### Timeline

09/12         Project Description         Jack Baumann         09/12           90/16         Register with BPA         All         09/18           09/18         Portfolio Cover Sheet         Patrick Edelen         09/18           09/23         Tentative Timeline         Jack Baumann         09/23           09/26         Gantt Chart         All         09/26           10/01         Team and Individual Paperwork         All         10/01           10/09         Storyboard         Alexis Lopez         10/09           10/16         Function         Jack Baumann         10/16           10/21         Error Logging Form         Micheal Peterson         10/21           10/21         UML Class Diagram         Micheal Peterson         10/21           10/21         UML Class Diagram         Micheal Peterson         10/22           10/22         Main Character Sprites         Alexis Lopez         10/22           10/22         Button Sounds Completed and Implemented         Alexis Lopez         10/22           10/23         Milestone 1 Complete         All         10/23           10/24         Opening Menu Buttons Implemented         Micheal Peterson         10/24           10/29         Menu Music Complete	Due Date	Task	Responsible Party	Completion Date
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01/27	All Game Documentation Finalized	Jack Baumann	01/25
01/29	1st Run-Through of Presentation	Patrick Edelen	01/30
02/03	2 <sup>nd</sup> Run-Through of Presentation	Patrick Edelen	02/05
02/05	Final Upload	Jack Baumann	02/20
02/20	3 <sup>rd</sup> Run-Through of Presentation with Audience	Patrick Edelen	02/15
02/26	4 <sup>th</sup> Run-Through of Presentation with Audience	Patrick Edelen	02/19
03/03	Final Presentation Run-Through	Patrick Edelen	
03/12	Presentation	Patrick Edelen	

### **Project Milestones**

### Milestone 1 (10.23.14)

Art: main sprites and menu background completed

Music: title screen music complete

Code: title screen and main menu music and buttons implemented

Documentation: description, function, and error logging complete; data flow diagram and UML

iteration 1 complete

### **Milestone II (11.5.14)**

Art: backgrounds for main levels complete, menu UI started

Music: game sounds complete (collision, buttons, etc.)

Code: basic Tetris mechanic and sub-menus implemented

Documentation: lifecycle complete, technical requirements laid out, code commenting started

### **Milestone III (11.11.14)**

Art: menu UI completed, sprites finalized

Music: UI sounds added, ambient game music started

Code: UI implemented (pause menus and HUD)

Documentation: code commenting continued, Javadoc generated

### Milestone IV (11.20.14)

Art: level selection artwork completed, level UI started

Music: ambient music finalized

Code: level layout and selection implemented

Documentation: UML and dataflow updated, continue commenting

### **Milestone V (1.5.15)**

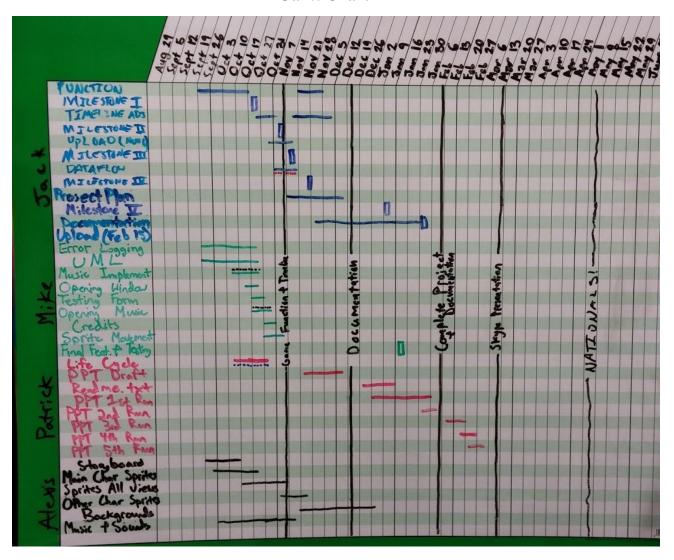
Art: sprites polished and level UI finished

Music: all music complete and polished

Code: Tetris mechanic finalized, win/lose state finalized; fully playable game

Documentation: update UML, Javadoc, Data Flow Diagram, and any other documentation

### **Gantt Chart**



### Part IV -- Quality Management

### **Game Testing Feedback Form**

Before playing Trapomino, please fill out the first section. Next, play the game and fill out the following section with any suggestions or problems you encountered. Finally, after playing the game, please evaluate your opinion on Trapomino and how Team Trapomino can improve the game.

### Section 1 - Before Playtest:

*Trapomino* is a Tetris based game where the player takes on the role of a zoo keeper trying to recapture escaped animals. By rotating and placing tetromino blocks on a grid, the player must catch animals by creating "cages" with the shapes. The player must capture a variety of animals, each with different abilities that challenge the player in new ways. The player will advance through stages of increasing difficulty and new sets of animals until he reclaims all of the escaped animals.

Playtest	er Inforn	nation:									
P	lease sup	pply Te	am Tra	apomin	o with	some b	oasic in	format	ion abo	out yours	elf.
Name: _					Ag	e:	_ Ger	nder: _			
Approxi											
Based or	n the des	– scriptio	n abov	e, pleas	se circl	e your i	interes	t in thi	s game	on a scal	e from 1
(Not Int	erested)	to 10 (	Highly	Intere	sted):						
	1	2	3	4	5	6	7	8	9	10	
Please d	escribe a	any erre	ors or p	problem	ns you	encoun	itered v	while p	laying	Frapomii	10:

Please describe any difficulties or frustrations you encountered while playing Trapomino:
Section 3 - After Playtest:
Please describe any visual or audio related suggestions that would improve Trapomino:
- Totale describe this victal of duals related suggestions that would improve the suggestions
Please describe any game mechanics suggestions you would like to see in Trapomino:

Please circle the quality that corresponds to each element in Trapomino on a scale from 1 (Low Quality) to 10 (High Quality):

Game Experience:	1	2	3	4	5	6	7	8	9	10
Intuitiveness:	1	2	3	4	5	6	7	8	9	10
Graphics:	1	2	3	4	5	6	7	8	9	10
Audio:	1	2	3	4	5	6	7	8	9	10
Overall:	1	2	3	4	5	6	7	8	9	10