Eggly Buddies Milestone 4 Submission

Team members:

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Game Balance

- Adjusted minigame rewards and difficulty so that the amount of stats gained from each minigame makes more sense and paces the gameplay better
 - o Backyard minigame increases in difficulty as you complete each level
 - o Bedroom minigame enemies increases in speed(difficulty) as the game goes on
 - o Bathroom minigame gift box shuffle speed increases as the game goes on
- Adjusted speed of buddy status bars depletion so that the pacing of the story is better
- Adjusted rate at which buddy ages and at which ages the buddy changes from baby to teen and teen to adult
- Interactions between different rooms for more fluid gameplay
 - Food harvested from backyard impacts ability to play kitchen minigame
- Adjusted soap duration time to not fully filled hygiene status bar

User Interactions

- Players report being unsure what actions to take, used Text rendering to add clearer gameplay instructions
- Players report being unsure which objects can be clicked on, so now objects that can be clicked now glow on hover
- Story-telling with initial cut scene to make instructions / motives more clear
- Rewards from minigames have more impact on gameplay/story
 - Soap from Bathroom minigame allows you to increase hygiene status bar
- Players report inverted status bars are not as intuitive, so we inverted the status bars

Proposed Development Plan:

Skeletal Game

Week 1

✓	Layout	basic	class	structure
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✓ Create main seene

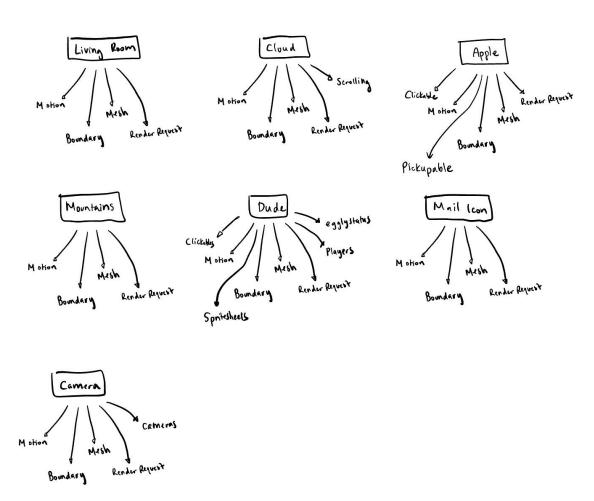
✓ Base sprite assets

Week 2	
Basic physics / collision detection for creature colliding into walls and	objects in the room
Established foundation for single room: living room so that future seen	nes are easy to implement
✓ Keyboard / mouse control of character sprite	
Week 3	
Implement gravity with an apple that bounces	
✓ Implement parallax	
Minimal Playability	
Week 1	
Complete transitions between scenes (add new sprites and background	assets for new rooms)
Add new entities and gameplay functionality to each room	
Add logic for when to move to a different scene (e.g. taking a bath after Since this is more complex logic, this was moved to Playabili	
Add minigames to scenes	ty
This was started here and will be continued in future weeks /	milestones
Background music / sound effects Mayord to Playability	
Moved to Playability	
Week 2	
Add classes to track creature personality and status (e.g. hunger, tiredn	ccc etc)
This was started for cleanliness only, and will be expanded on	
☑ Basic user tutorial / help menu → access from mailbox screen (e.g. inc.)	
Inventory system/interacting with items using mouse	
 ✓ Menu / UI to display personality and status ✓ Basic mechanics for sleeping minigame (infinite runner) 	
Busic incommittee for steeping immigration (immittee runner)	
Playability	
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Week 1	
✓ Implement saving of game state + reloading	
Add classes to track creature personality and status (e.g. hunger, tiredn	ess, etc)
Menu / UI to display personality and status	
Was started above and will be continued on here	
✓ Continue working on minigames	

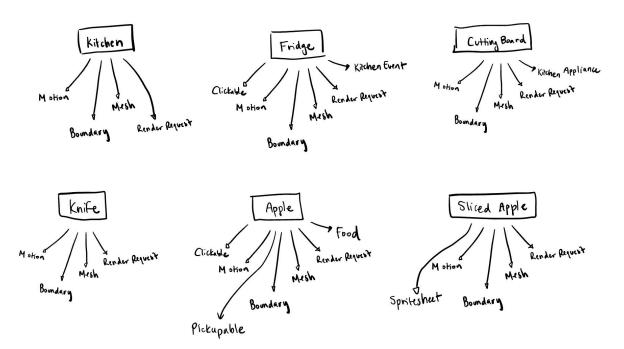
Week 2	
	Finish minimally playable minigames for each seene (backyard, bedroom, garden, living room / main seene, bathroom) Started this, will keep working on this for the next milestone Smooth transitions between seenes Finish creature animations Background music / sound effects
Final	Game
Week 1	
	Advanced gameplay: features such as advanced decision-making mechanisms based on goals (path planning ete) Finalize all mini-games Surprise events differ based on personality and status ☐ Moving to backlog → will finish before cross-play if time (potentially might change a bit) User testing + bug fixing!!
Week 2	Finalize sound effects for all interactions Finalize all assets Finish age system so buddy can grow up and leave home (end game) Additional elements and details as needed

Game Design Documentation

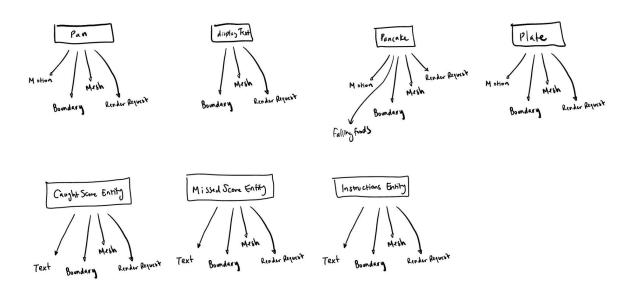
Below are the ECS design pattern diagrams, separated by room. Each diagram includes interactions between entities and components.



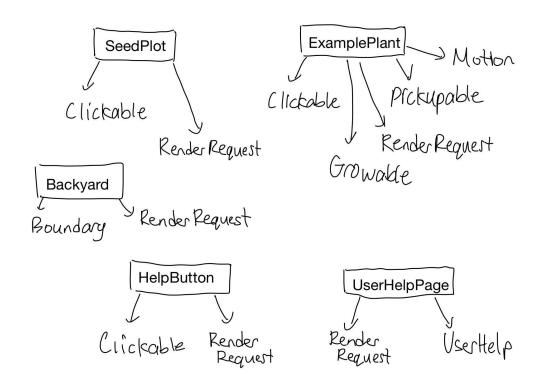
ECS design pattern diagram for the Living Room.



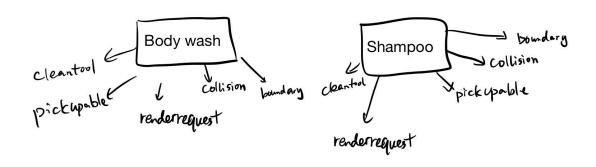
ECS design pattern diagram for the Kitchen.

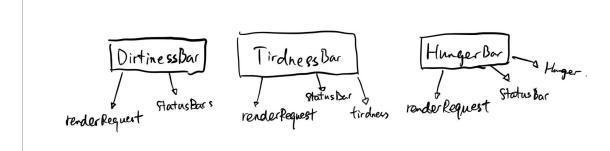


ECS design pattern diagram for the Kitchen Pancake Mini-Game.



ECS Diagram for Backyard and User Help

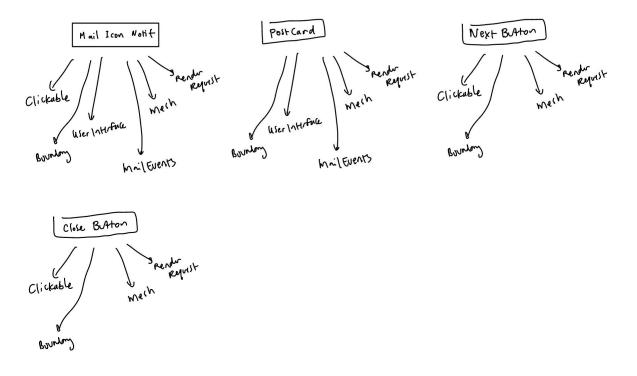




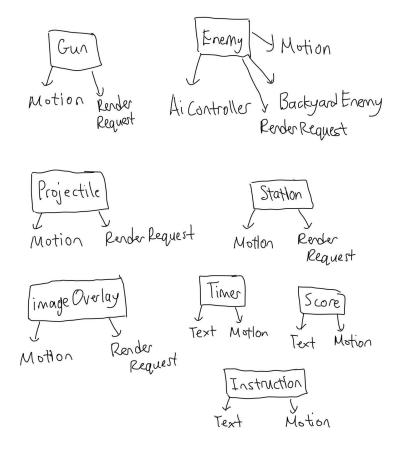
ECS Diagram for Bathroom and Health Bar



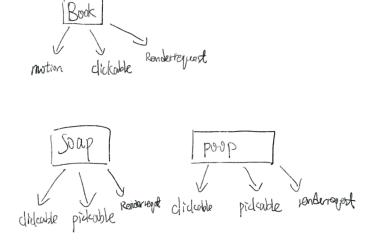
ECS Diagram for Bedroom and Dream Game Room



ECS Diagram for Mail System



ECS Diagram for BackyardGameSystem



ECS Diagram for Bathroom Mini Game