*Items that are crossed out were removed from the final implementation

- Made UML to streamline classes
- Scaled movement speed and attack delay based on player scale
- Rethought Shrinking Mechanic:
 - Need to inspire player to use attacks for movement
 - Idea: constantly shrink when timer reaches 0, constant rate of shrinkage (time and amount); rate of shrinkage is really fast but the timer is fairly long; timer scales to player scale, but still remains fairly long (> 3 secs)
- Added minimum scale field
- Added private "atMinScale" and "atMaxScale" functions in playercontroller; use in shrink() and grow(); change shrinktimer bool method to not check player scale
- Made buildings significantly harder to destroy
 - Player scale has to match building level to deal damage
- Added attack combos
 - Using three unique attacks in a row makes the player dash at the end
 - Scaling cooldown for dash?
 - Idea: record at most last three attack key presses
 - If next key press is already recorded, reset record but not attack delay
 - If the record is full (max size of 3), reset record but not attack delay
 - If next key press is not already recorded, reset attack delay and add key press to the record
 - If record fills after adding the next key press, activate dash
 - Made ComboList class
 - ComboList has a list under the hood (field), but controls what can be added to it, and what amount of things can be held
 - Add() method checks if the list already contains something or is full
 - Issue: reset means you can use the same attack twice instantaneously; need to require A DIFFERENT ATTACK for reset to apply
 - Solution: Checked before attacking if key is unique; if it's not unique, don't make the attack but still add it to the list after clearing the list

• 6/22/21

- Issue: combo continues if you use the same key twice (key is just replaced with the same key)
 - Solution: Break combo, so you have to start it over again (Combo starts every other attack) but retain attack delay; just clear list when adding same attack and implement thing below:
 - Made first attack recorded in combo have attack delay, aka return false when adding to ComboList

• 6/22/21 - 7/18/21

- Made it so holding down the attack button will repeat the same attack over and over again (move attack methods call to Attacks script)
 - Used Input.GetButton() so you can hold down the button (https://youtu.be/THnivyG0Mvo?t=772)
 - Just pressing the button will use a single attack
- https://youtu.be/THnivyG0Mvo?t=750 changed attack delay variables to attack rates; more intuitive
 - Changed ScaleAttackDelay() to ScaleAttackRate()
 - Calculated nextAttack in Attack() function

• 7/18/21

- Made scaling timer with min and max base times
 - Make shrink timer inherit from it
 - Use it for combo cooldown
 - Renamed timer class to basictimer
- Added summary comments above classes
- Assigned default values for public fields in scripts! Can change in editor if needed

• 7/21/21

- Made script component fields private in all player scripts
 - Used GetComponent<>()
- Added GetShrinkTimer() getter function to PlayerController so BuildingBehavior could reset the timer
- Put initialization of PlayerController fields in Awake() to avoid bugs
- Froze player's rigidbody on z axis, removed angular drag

7/26/21

 Added enum and enum field to ScalingTimer to determine whether it scales up or down with player scale

• 8/3/21

- Added priority for attacks when multiple attack keys are pressed
 - Kick > Left Punch > Right Punch
- Made Kick only be used once per key press; does not repeat if key is held down
- Made attack buttons/behavior less hard coded
 - added public keycode fields to attacks script with variable names associated with matching attack names; a map was unnecessary for this behavior

• 8/4/21

- Added CanAttack() method to Attacks script for improved code readability
- Made attack functions private
- Improved building damage system
 - Added private float field representing player's scaled attack damage to Attacks
 - Renamed ScaleAttackRate() to Scale(), and made it scale player's attack damage as well
 - Turned building's health and scale fields into floats

- Made PlayerController's Grow() function take the building's scale in the form of a float rather than an int
- Removed Attacks field from ComboList script
- Made player movement framerate independent
 - Added private inputX and inputY float fields to PlayerController
 - Gathered these inputs from Input system in Update()
 - Set player rigidbody velocity in FixedUpdate()
- Replaced PlayerController's ScaleMovementSpeed() with Scale(), which scales the player's speed and size their current scale
- Reworded many comments
- Renamed UIButtonBehavior interface to fit naming conventions
- 8/11/21
 - Added ComboCooldownTimer() so that there is a cooldown between combos