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ASCII Farmer
 OG WEB VERSION BITCHES
 1 UI Elements
   1.1 Title/Header
       This is just the title for the game which lives at the top of the page.
     1.2 Player Info
       1.2.1 Player Name
        1.2.2 Farm Start Date
        1.2.3 Farm Age
       1.2.4 Farm Name
     1.3 Currency Bar
       - 1.3.1 Coins
        1.3.2 Seeds
         1.3.2.1 Wheat Seeds
          - 1.3.2.2 Oat Seeds
          1.3.2.3 Barley Seeds
          1.3.2.4 Rye Seeds
        1.3.3 Water Capacity
         <sup>⊥</sup> 1.3.3.1 Water
        1.3.4 Crops
          1.3.4.1 Wheat
          - 1.3.4.2 Oats
          1.3.4.3 Barley
          1.3.4.4 Rye
        1.3.5 Products
         1.3.5.1 Milk
          - 1.3.5.2 Eggs
          1.3.5.3 Wool
            <sup>⊥</sup> 1.3.5.3.1 Yarn
          - 1.3.5.4 Flour
     1.4 The Field
       1.4.1 Plot Buttons
         1.4.1.1 Plot Sequence
            1.4.1.1.1 Stage 1 - Untilled: "~"
            - 1.4.1.1.2 Stage 2 - Tilled: "="
            - 1.4.1.1.3 Stage 3 - Planted: "."
            - 1.4.1.1.4 Stage 4.1 - Growing 1: "\"
            - 1.4.1.1.5 Stage 4.2 - Growing 2: "|"
            - 1.4.1.1.6 Stage 4.3 - Growing 3: "/"
            1.4.1.1.7 Stage 5 - Ready to Harvest: "¥"
            1.4.1.1.8 Stage 6 - Fallow Period: "~"*
        1.4.2 Field Layout
         1.4.2.1 9 x 9 Grid of Plot Buttons
     1.5 The Store
       The Store display elements and screens.
        1.5.1 Supplies
          Section of the store for purchasing needed supplies.
          1.5.1.1 Buy Seeds
            └ 1.5.1.1.1 Bulk Seed Purchase Options
          1.5.1.2 Buy Water
            └ 1.5.1.2.1 Bulk Water Purchase Options
          1.5.1.3 Buy Silage
            <sup>⊥</sup> 1.5.1.3.1 Bulk Silage Purchase Options
          1.5.1.4 Buy Fertilizer
            ☐ 1.5.1.4.1 Bulk Fertilizer Purchase Options
        1.5.2 Market
          Section of the store with options for selling player inventory.
          1.5.2.1 Crops
          1.5.2.2 Milk
          1.5.2.3 Silage
        1.5.3 Field Expansion
             - 1.5.3.1.1 1x
             1.5.3.1.2 3x
             - 1.5.3.1.3 5x
            1.5.3.1.4 9x
          1.5.3.2 Buy Field
        1.5.4 Upgrade Tokens
          Not displayed until unlocked
          The store items that appear when specific milestones are hit that unlock a buy button the player must click and purchase to fully unlock the feature.
          1.5.4.1 Expanded Click Tokens
            1.5.4.1.1 Mk. 1
             - 1.5.4.1.2 Mk. 2
            - 1.5.4.1.3 Mk. 3
            - 1.5.4.1.4 Mk. 4
            1.5.4.1.5 Mk. 5
          1.5.4.2 Water Capacity Upgrade Token
          1.5.4.3 Bulk Purchasing Tokens
            1.5.4.3.1 Bulk Seed Purchase Tokens
             1.5.4.3.2 Bulk Water Purchases Tokens
            1.5.4.3.3 Bulk Silage Purchases Tokens
          1.5.4.4 Bulk Sale Tokens
            1.5.4.4.1 Bulk Crop Sales Tokens
            1.5.4.4.2 Bulk Milk Sales Tokens
            1.5.4.4.3 Bulk Silage Sales Tokens
        1.5.5 Tools
          1.5.5.1 Shovel
          1.5.5.2 Auto-Farmer
          1.5.5.3 Sprinklers
     1.6 Tools & Upgrades
       1.6.1 Upgrades
          1.6.1.1 Water Capacity Upgrade
            Effect: permanent +10 to Water Capacity
             Frequency: Once per purchase
             Cost: The first Water Capacity Upgrade costs 50 coins. Each subsequent upgrade will increase in price according to the following algorithm: currentWaterCapacityUpgradeCost*1.25=newWaterCapacityUpgradeCost.
            Unlock Cost: As the player hits Water Refills Milestones.
            1.6.1.1.1 Current Level
          1.6.1.2 Expanded Click
            1.6.1.2.1 Mk. 1 Toggle
               Effect:
               Frequency
               Cost:
               Unlock Cost:
             1.6.1.2.2 Mk. 2 Toggle
               Effect:
               Frequency
               Cost:
               Unlock Cost:
             1.6.1.2.3 Mk. 3 Toggle
               Effect:
               Frequency
               Unlock Cost:
             1.6.1.2.4 Mk. 4 Toggle
               Effect:
               Frequency
               Unlock Cost:
             1.6.1.2.5 Mk. 5 Toggle
               Effect:
               Frequency
               Unlock Cost:
          1.6.1.3 Plot & Field Modifiers
            Change or otherwise alter elements of the plot buttons and the main sequence.
            1.6.1.3.1 Fertilizer Toggle
               Increases Yield by +1
        1.6.2 Tools
          1.6.2.1 Sprinkler
          1.6.2.2 Auto-Farmer
         1.6.2.3 Shovel
     1.7 Modal Messages
 2 Game Mechanics
   2.1 Field Mechanics
       2.1.1 Field Grid Contents Index
          An array for each field that determines the contents of each location on each field's grid.
          All fields start with
         2.1.1.1 0 = Nothing/Empty Plot
          2.1.1.2 1 = Plot Button
         2.1.1.3 2 = Sprinkler
         2.1.1.4 3 = Auto-Farmer
       2.1.2 Fertilizer
     2.2 Store Mechanics
       2.2.1 Purchasing Mechanics
         2.2.1.1 Supplies
            <sup>⊥</sup> 2.2.1.1.1 Buy Seeds
          2.2.1.2 Field Expansion
          2.2.1.3 Upgrade Tokens
         2.2.1.4 Tools
       2.2.2 Sale Mechanics
         2.2.2.1 Market
     2.3 Upgrade Mechanics
     2.4 Plot Mechanics
       This section defines the mechanics and interactions specific to the individual plots where the player's primary interaction takes place.
       2.4.1 Yeilds
          These are the different base yield amounts for each crop type. These yields can be modified by the presence of fertilizer in a field
         2.4.1.1 Wheat
           <sup>L</sup> 2.4.1.1.1 1x Crop(s)
          2.4.1.2 Barley
          - 2.4.1.3 Rye
         2.4.1.4 Oats
        2.4.2 Plot Sequences
         2.4.2.1 Wheat Plot Sequence
            This is the primary sequence each plot goes through
            2.4.2.1.1 Stage 1 - Untilled: "~"
            - 2.4.2.1.2 Stage 2 - Tilled: "="
            2.4.2.1.3 Stage 3 - Planted: "."
            2.4.2.1.4 Stage 4.1 - Growing 1: "\"
            2.4.2.1.5 Stage 4.2 - Growing 2: "|"
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2.4.2.1.6 Stage 4.3 - Growing 3: "/"
          2.4.2.1.7 Stage 5 - Ready to Harvest: "¥"
         2.4.2.1.8 Stage 6 - Fallow Period: "~"*
        2.4.2.2 Plot Sequence Requirements
          These elements outline the different types of requirements that
          - 2.4.2.2.1 Water
         2.4.2.2.2 Seeds
          2.4.2.2.3 Tools
        2.4.2.3 Barley Plot Sequence
          This is the primary sequence each plot goes through
          2.4.2.3.1 Stage 1 - Untilled: "~"
          2.4.2.3.2 Stage 2 - Tilled: "="
          2.4.2.3.3 Stage 3 - Planted: "."
          - 2.4.2.3.4 Stage 4.1 - Growing 1: "\"
          - 2.4.2.3.5 Stage 4.2 - Growing 2: "|"
          - 2.4.2.3.6 Stage 4.3 - Growing 3: "/"
         2.4.2.3.7 Stage 5 - Ready to Harvest: "¥"
          2.4.2.3.8 Stage 6 - Fallow Period: "~"*
        2.4.2.4 Rye Plot Sequence
          This is the primary sequence each plot goes through
          2.4.2.4.1 Stage 1 - Untilled: "~"
          2.4.2.4.2 Stage 2 - Tilled: "="
          2.4.2.4.3 Stage 3 - Planted: "."
         2.4.2.4.4 Stage 4.1 - Growing 1: "\"
          2.4.2.4.5 Stage 4.2 - Growing 2: "|"
          - 2.4.2.4.6 Stage 4.3 - Growing 3: "/"
          2.4.2.4.7 Stage 5 - Ready to Harvest: "¥"
          2.4.2.4.8 Stage 6 - Fallow Period: "~"*
        2.4.2.5 Oats Plot Sequence
          This is the primary sequence each plot goes through
         2.4.2.5.1 Stage 1 - Untilled: "~"
          2.4.2.5.2 Stage 2 - Tilled: "="
         2.4.2.5.3 Stage 3 - Planted: "."
         2.4.2.5.4 Stage 4.1 - Growing 1: "\"
          2.4.2.5.5 Stage 4.2 - Growing 2: "|"
          - 2.4.2.5.6 Stage 4.3 - Growing 3: "/"
          2.4.2.5.7 Stage 5 - Ready to Harvest: "¥"
          2.4.2.5.8 Stage 6 - Fallow Period: "~"*
   2.5 Milestone Mechanics
    2.5.1 Total Coins Earned
        Total Coins Earned Milestone Marker Formula:
        coinsEarned(n) = 100*2^n
     2.5.2 Total Seeds Purchased
       Total Seeds Purchased Milestone Marker Formula:
        seedsPurchased(n) = 50 \times (1.33)^n
     2.5.3 Total Crops Sold
       Total Crops Sold Milestone Marker Formula:
       cropsSold(n) = 50 x (1.33)^n
     2.5.4 Total Water Refills Purchased
       Water Refills Purchased
        10 20 30 40 50 60 70 80 90 100 200 300 400 500 600 700 800 900 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 ....
     2.5.5 Fields Filled
       Each time a field plot index array is filled with 1
     2.5.6 Plots Clicked
   2.6 Farm Expansion Mechanics
     Not displayed until unlocked
     2.6.1 Animals
       2.6.1.1 Cows
         2.6.1.1.1 Feeding
             This explains the logic and values related to feeding cows
          2.6.1.1.2 Milking
             This explains the logic the game uses to handle the milking process.
        2.6.1.2 Goats
         2.6.1.2.1 Milking
            This explains the logic the game uses to handle the milking process.
         2.6.1.2.2 Feeding
            This explains the logic and values related to feeding cows
        2.6.1.3 Chickens
         2.6.1.3.1 Feeding
         2.6.1.3.2 Egg Collection
        2.6.1.4 Sheep
         2.6.1.4.1 Wool Sheering
          2.6.1.4.2 Feeding
     2.6.2 Buildings
       2.6.2.1 Silage Silos
         Turns crops into silage
          2.6.2.1.1 1x Crops -> 3x Silaged
       2.6.2.2 Barns
 2.7 Tool Mechanics
- 3 Design Document
 3.1 General Information
    - 3.1.1 Genre
    3.1.2 Target Audience
      └ 3.1.2.1 Me?
         Me. I'm the target audience.
    3.1.3 Concept Paragraph
     3.1.4 Player Experience
    3.1.5 Key Moments
     3.1.6 Art, Sound & Music
       - 3.1.6.1 Art
       - 3.1.6.2 Sound
       3.1.6.3 Music
    3.1.7 Current Target Platform
       └ 3.1.7.1 Desktop Web Browsers - Firefox, Chrome, Safari, Edge
   3.2 Concept Sentence
    └ 3.2.1 Universal Paperclips Meet Farm Manager 2021, with a hint of Stardew Valley. Grow Crops, Raise Animals, and build a fortune by clicking a bubble-wrap-like webpage.
  3.3 Player Objectives & Goals
    3.3.1 Concrete Objectives
       ☐ 3.3.1.1 Milestone Achievements
          The player receives a Modal message for each milestone achievement and with share buttons for Mastodon and Lemmy.
         3.3.1.1.1 Total Coins Earned High Score
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3.3.1.1.2 Complete Fields

3.3.2 Abstract Goals