

SENIOR CODERZ

Mr. Saver Team

Techno Kids Techno Future Damanhour.



GAME DESIGN DOCUMENT





GAME ANALYSIS

Our game is about helping in saving the earth resources. It consists of many challenges to grow up trees and collects solar powers and use the water drops of rain in a useful way. It has a lot of fun and entertainment.

MISSION STATEMENT

In Game has three challenging levels that leads you to continue playing to win the game.

- Title: Mr. Saver game.
- Platform: MIT app inventor.

Saver has to overcome falling rain drops to the ground in CH1,He should overcome time of 6 seconds to get solar power.



STORYLINE & CHARACTERS

This is where you present a story summary, information on the key characters in the game, including descriptions, abilities, characteristics, how they fit into the story, how they affect gameplay, what the player will learn from them, etc.

Character	Description	Characteristics	Misc. Info
Character Name	Our character is called (Mr.Saver). He is a playable character in our nice game.	Mr. Saver is so strong. He has many abilities such as:	Mr. Saver is so helpful. He wants to help Earth resources.

Player Experience

According to our game map, First, You will see Mr. Saver is waiting for you. Furthermore, He will be holding an empty Bucket that you will collect the falling water drops in Challenge 1. Then He will go to Challenge 2. You should water the grass with four buckets of water to grow up trees and collect the parts of wind fan so you have to collect them and search for the location of the hummer to build a new windmill. In Challenge 3, You will find a sun moves in horizontal line so you must press on Mr. Saver to enables him to jump high distance to get solar energy sun before time runs out.





Game Objectives & Rewards

This is where you present more details on how the gameplay will motivate the player to progress through the game. Discuss rewards and penalties "if found" and the difficulty level. You can use the table below to help break down objectives and rewards.

Rewards	Penalties	Difficulty Levels
• CH1:	In CH1, The penalties are:	Our difficulty challenge
Player has score counter	 The speed of the 	level is challenge 2.
and extra points to motivate	fall of the drop.	As you must search of
player.	 The different sites 	the hummer in a large land
• In CH2,	of the falling	to press it to fix a new
Player has score counter	drop.	windmill which changes
and a progress bar which	In CH2, The penalties are:	the kinetic energy of wind
increase when he grow up	 The hidden 	into electric energy.
trees and fix the new	location of the	
windmill.	hummer.	
• In CH3:	 The location of the 	
Player has energy counter	buckets and wind	
increases every time he	fans.	
catches sun.	In CH3, The penalties are:	
	 The speed of 	
	movement of the	
	sun.	

Gameplay Mechanics

This is the where you start getting more specific on how some of the systems in the game will work. This includes how characters move in the game, what gameplay actions are available, item inventory and attributes, and how the game progresses from level to level.

Character Attributes		
Character	Movement Abilities / Actions Available	
Mr. Saver	 In CH1: You can move the character by the two arrows below to move right or left direction. In CH2: You have to drag the character to move to the location you need. In CH3: You should press on the character to enable him to jump up on a great height to catch the sun. 	



Game Modes		
Our game mode is so challenging mode which allies with fun to save earth resources.	Our game aims to help our earth resources such as: Minerals, Wind, Water, Rain, Sunlight and etc Because many dangerous things damage the earth as the global warming phenomenon. You can go to the next challenge by pressing go to next challenge button.	
Scoring System		
Points/Coins/Stars/Etc.	How it's Awarded & Benefits	
 In CH1: You have to score 30 points to win. In CH2: You have to score 100 points to win. In Ch3: You have to score 20 points to win the game. 	 In Ch1: You should collect 30 water rain drop to win. In CH2: You have 2 missions: You have to collect the buckets to water the grass so your score will increase by 50. You have to collect the parts of wind fans and touch the hummer to fix the windmill so score will increase by 50. In CH3: You must press on Mr. Saver to make him jump to get solar power. 	

Level Design:

In our interesting game, We have 3 Challenges levels that we must work hard to win them.

• CH1:

You must press "play button" to start the challenge. First, the rain drops will be fallen and you have to catch them before they fall on the ground knowing that the difficulty here is the speed of the falling rain drops and the difference of the sites of falling the drops. Be careful that you shouldn't miss the ice because it is an extra point for you.

• CH2:

There are four buckets of different colours:

- 1. The brown bucket increases the score by 5.
- 2. The green bucket increases the score by 10.
- 3. The red bucket increases the score by 15.
- 4. The green bucket increases the score by 20.

And there are four fan parts we must collect them and search for the hummer to build new windmill.

• CH3:

There is a sun on the top we must press on the character (Mr. Saver) so he will jump high distance to get solar power .





Levels

CH1:



• In CH1:

We must press on play button to start .We can see four rain drops that falls and Mr. Saver has to catch before falling to the ground and we see an ice cube which is the extra point you should collect .We can see three hearts which decreases by falling of the rain water drop to the ground so we must avoid that to don't lose.

CH2:



In CH2:

We can see four buckets of different colours that are full of water and a green grass land so we must put the buckets in the green grass land to water the land to grow up trees. Then, we can see parts of wind fans we must collect them to the old windmills on the top to repair them. Furthermore, we can see a hummer so we must press it to build the new windmill. So never find the hummer if you still don't collect the parts of the wind fan because your score will be 50 and it must be 100.

CH3:



• In CH3:

We can see a garden which is full of grass and we are able to see the sun on the top so we must press the start button to play and a timer of 30 seconds so we must press on Mr. Saver to enables him to jump to get the solar power . we must get 20 solar energy before the time runs out.

Code:

Challenge 1:

```
call stop_game *
                                                                   n TryAgain .Click
 to fall raindrop1
                                                                   set horizontal1 . Visible to true
 do call RainDrop1 .MoveTo
                                                                    set try_again_horizontal . Visible . to false
                        random integer from 60 to 300
                                                                                                                                  lives_count | Text = 0
                                                                    set Canvas1 . Visible to true
                                                                                                                          then set RainDrop1 . Speed to 0
                        y 2
                                                                    set direction horizontal . Visible to true
                                                                                                                              set (RainDrop2 . Speed to 0
                                                                    call start_game •
                                                                                                                              set RainDrop3 Speed to 0
                                                                                                                              set RainDrop4 . Speed to 0
 to fall_raindrop2
                                                                                                                              set score_count . Text . to 0
do call RainDrop2 .MoveTo
                                                                    to win_procedure
                                                                                                                              set lives_count . Text . to 0
                       random integer from (60) to (224)
                                                                                                                              set direction horizontal . Visible to false
                                                                           score_count • Text • = • 30
                      y 2
                                                                                                                              set Canvas1 . Visible to false
                                                                     hen open another screen screenName ch2intro v
                                                                                                                              set try again horizontal . Visible . to true .
                                                                                                                              set horizontal1 . Visible to false
  to fall_raindrop3
 do call RainDrop3 .MoveTo
                                                                                                                              call Player1 - Stop
                        random integer from 60 to 224
                                                                 to fall_raindrop4
                       y | 2
                                                                    call RainDrop4 .MoveTo
                                                                                        random integer from (60) to (224)
1
         ⊗ 0
                                                                                       y | 2
          \nabla
Show Warnings
                                                                                                                                                     Activate Window
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initialize global speed1 to 11
                  initialize global speed2 to 3
                                                                       set character . X . to ( character . X . + 110)
                                                                                                                                            set score_count . Text . to score_count . Text . + 1
                 initialize global (speed3) to 4
                   initialize global speed4 to 5
                                                                                                                                             call win_procedure
                                                                        set character . X . to character . X . - 10
                                                                                                                                             do set lives_count . Text . to lives_count . Text . 1
       to start_game
do set RainDrop1 • X • to 50
                                                                        en character - CollidedWith
            set RainDrop1 . Y to 60
                                                                                                                                                            en RainDrop1 .EdgeRead
           set RainDrop2 · X · to 140
set RainDrop2 · Y · to 60
set RainDrop3 · X · to 190
                                                                       o if get other = RainDrop1
                                                                                                                                                            call fall_raindrop1
                                                                           then call fall_raindrop1
                                                                                                                                                              call decreaselife •
           set RainDrop3 · . Y · to 60
set RainDrop4 · . X · to 300
set RainDrop4 · . Y · to 60
                                                                                call (increase_score *
                                                                                                                                                             call stop_game •
                                                                                call Sound1 .Play
                                                                                                                                                             nen (RainDrop2 - Ed
                                                                                 get other = RainDrop2
            set score count . Text . to 0
                                                                           then call increase score •
                                                                                                                                                            call fall_raindrop2
            set [lives_count + . Text + to 3]
                                                                               call fall_raindrop2
           set RainDrop1 · Speed · to get global speed1 · set RainDrop2 · Speed · to get global speed2 · set RainDrop3 · Speed · to get global speed3 · set RainDrop4 · Speed · to get global speed4 · set RainDrop1 · Heading · to [59]
                                                                                                                                                               call decreaselife *
                                                                                  get other = RainDrop3
                                                                                                                                                              call stop_game *
                                                                           then call fall_raindrop3
                                                                                                                                                               en RainDrop3 - EdgeR
                                                                                call increase score
                                                                                  get other = RainDrop4
                                                                                                                                                             call fall_raindrop3
           ► RainDrop2 • . (Heading • to | -90)
                                                                           then call fall_raindrop4 •
                                                                                                                                                               call decreaselife •
           RainDrop3 . Heading to 90
                                                                                call increase_score
                                                                                                                                                               call stop_game •
how Warnings Player1 Start
                                                                                                                o call start game
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Challenge 2:



Challenge 3:

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when saver Touched
                                           to win_game
                                             if 🖨
                                                                     Text -
                                                                                  20
                                                       score count *
do call jumb
                                             then open another screen screenName
                                                                               winScreen
when sun .EdgeReached
  edge
do

    if

               get edge = -3
          set sun . X . to .
                                   Canvas1 -
                                               Width -
                                                            100
when animation Timer
    t if
               get global frame > > -
    then set global frame to
    set saver . Picture . to
                              ijoin
                                       get global frame
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    set global frame - to Co
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Marketing Plan

• Facebook page

We create a Facebook page which is called (Mr. Saver game) to share our game idea there.

Our Link:-

https://www.facebook.com/profile.php?id=61556771392308&mibextid=ZbWKwL

Sponsored ads

We lunch ads to make people know about game.

Payment

Our game is for free to make a lot of people install, Play and learn from the game.

Open day

We will organize open day to give information about the game and let people try our game with us, having a lot of fun and knowing their feedbacks.