

T1A3

# Terminal Application

- Yun Li

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## Application IDEA

First of all, I want to make a game for this assessment.

Because of the limitation of the terminal. Text-based game is one of the choices.

D&D board game especially the dice system make everything uncertain and dramatic. So I use the dice system in this application.

The monster's abilities increase with the round to promote the challenge of the game. The Hall of Fame is used to stimulate users to repeat the challenge of the game.

Store and currency make sure the character's abilities grow.

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# TINY HERO

Text-based game.

Fight with monsters.

Could save and load.

With uncertain dice system.

New character's ability.

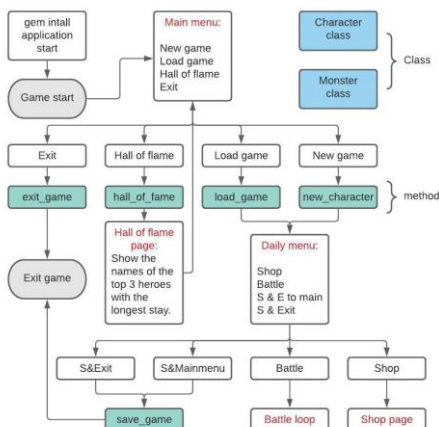
Shop selling random items.

Uncertain attack damage, missing , half , normal and crit damage.

Have basic visual performance, by use 'artii' and 'box'

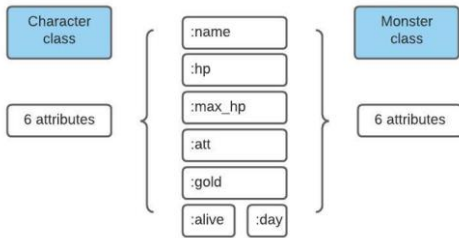
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## Overview



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# Classes



```

class Character
  attr_accessor :name, :att, :hp, :max_hp, :gold, :alive

  def initialize(name, hp, max_hp, att, gold, alive)
    @name = name
    @hp = hp
    @max_hp = max_hp
    @att = att
    @gold = gold
    @alive = alive
  end
end

```

```

class Monster
  attr_accessor :name, :att, :hp, :max_hp, :gold, :day

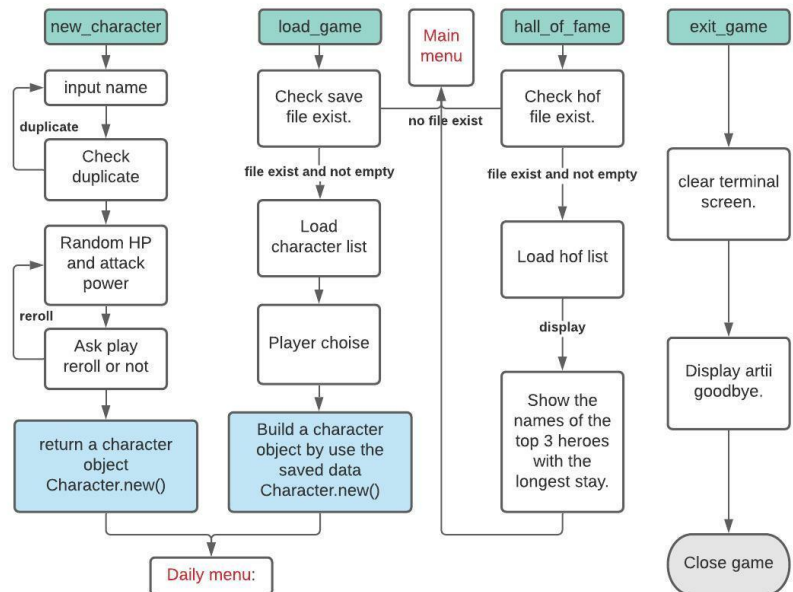
  def initialize(day)
    @day = day.to_i
    # Random monster name and att base on the day
    when 1..5
      @name = ["Slime", "Goblin", "Spirit", "Fly"].sample
      @att = roll_dice(25, 30) + @day
      @max_hp = roll_dice(70, 100) + @day * 10
      @hp = @max_hp
      @gold = roll_dice(20, 50)
    when 6..10
      @name = ["Goblin", "Spirit", "Skeleton", "Troll", "Vampire", "Zombie", "Ghoul"].sample
      @att = roll_dice(30, 35) + (@day - 5) * 2
      @max_hp = roll_dice(130, 150) + (@day - 5) * 15
      @hp = @max_hp
      @gold = roll_dice(30, 60)
    else
      @name = ["Werewolf", "Yeti", "Godzilla", "Troll", "Vampire", "Zombie", "Ghoul"].sample
      @att = roll_dice(40, 45) + (@day - 10) * 3
      @max_hp = roll_dice(205, 225) + (@day - 10) * 20
      @hp = @max_hp
      @gold = roll_dice(40, 70)
    end
  end
end

```

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## MAIN MENU

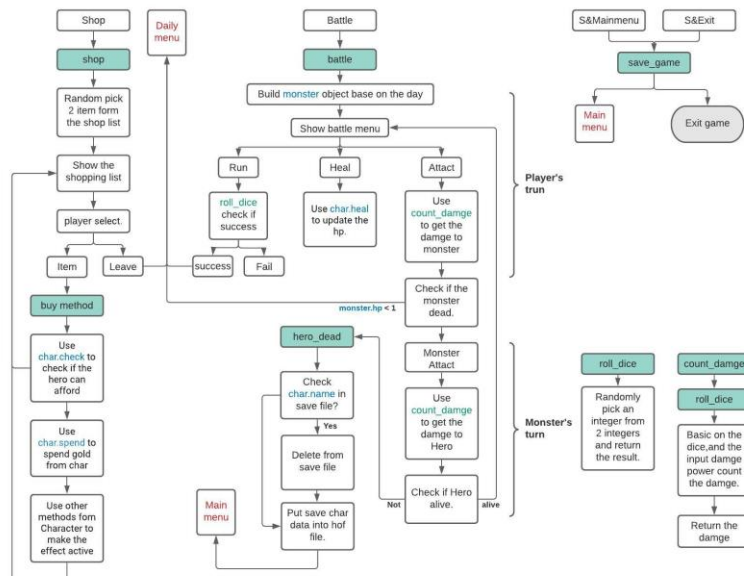
- New game
- Load game
- Hall of fame
- Exit



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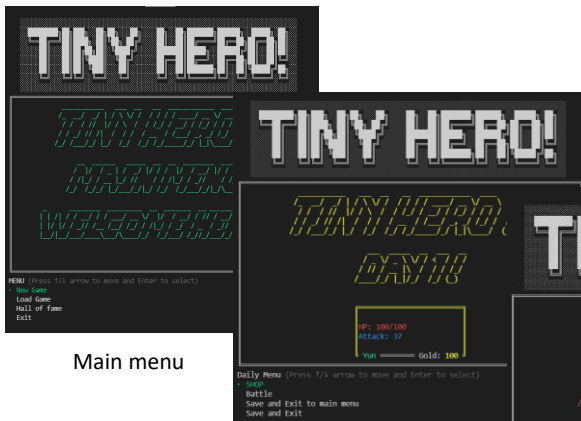
# DAILY MENU

- SHOP
- Battle
- Save and Exit to main menu
- Save and exit



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# DISPLAY



Main menu

Daily menu



Battle page

Split the terminal screen into two parts.  
Top part for display.  
Bottom part for select and enter.

Exit page



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# GEM USE

- 'artii' gem for the artistic font.
- 'tty-prompt' gem for data enter and selection.
- 'tty-box' gem for the display box on the screen.
- 'colorize' gem for colour the text.
- 'json' gem for the data save and load.

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# THANK YOU!

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