## KEIRAN HOWARD

# RUBY TERMINAL APP

## HANGMAN DESIGN PLAN

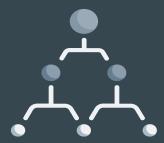


Create a detailed plan using Trello boards

Pseudocode and Flowcharts

Writing code and implementing gems



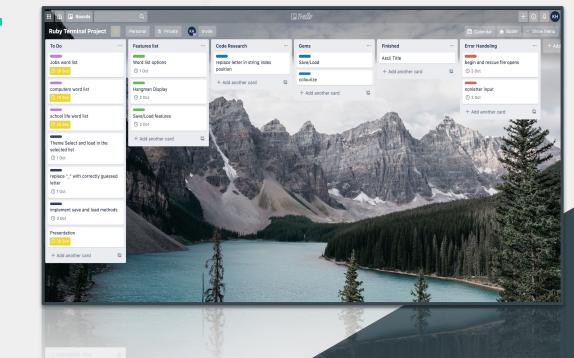




# PROJECT MANAGEMENT



## Trello Board



```
pseudocode.rb
   prints loading screen
   ask for username
   gets username
   if username entered begin game
   slice text to individual chars
   asks for user guess and match against word
   else add + 1 to attempts and draw charecter head
   repeat until character is made or word is complete

√ if character is draw

       print "You lost"
       print "The word was ..."

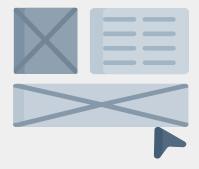
✓ if word is completed
       print "You Won!"
   prints "Would you like to play again? type yes or no"

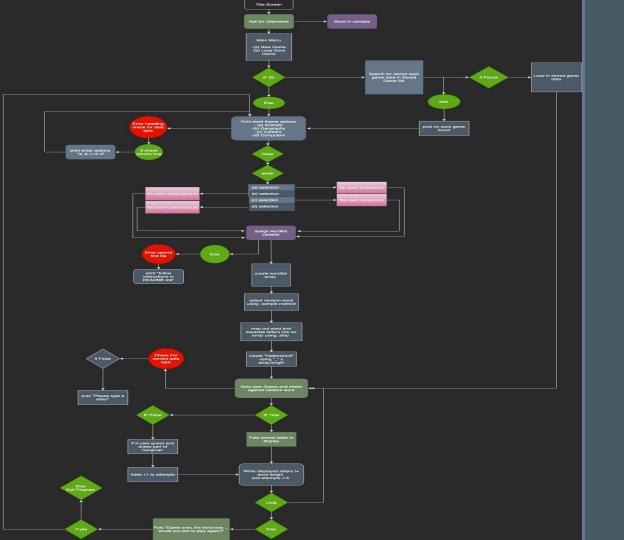
√ if user types yes

       repeat all
       exit application
       make a class for menu
       and class for game
```

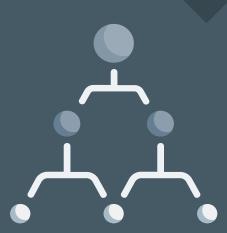
Pseudo Code

# PLANNING PROCESS





# DESIGN FLOW



- 1. Input username
- 2. Choose new game or load saved game
- 3. Select a word list theme from the presented choices
- 4. Guess a letter until win or lose
- 5. Choose between new game or exit application





## CODE



#### STAGE I

Code all basic functions of the application and design control flow.

#### STAGE 2

Implement Ruby gems and develop features.

#### STAGE 3

Run code tests and develop error handling methods.







### Features

#### Word Theme

- User can choose between 4 word list.
- Animals, Geography, Careers and Computer.
- Application will pick a random word from selected list

```
wordlist = File.open("animals.txt")
wordlist = wordlist.to_a
word = wordlist.map {|word| word.upcase.strip}
secretword = word.sample
```

#### Save/Load Game

- Ability to save current game or load from a pre existing save state
- Utilizes Ruby gem "save\_game" version 1.031
- Save states will be read and written into a relative text file then translated back to ruby code

#### Hangman Display

- Created in Ascii
- Sections will be displayed incrementally with each incorrect guess
- Once the image has been completed the application prompts user to initialize a new game and display hidden word

Concept art-

## **CONCEPT ART**

2D Concept

3D Concept

Title





asciiart.txt						
/:::/ \:::\ /::\\						
			/\:::\ \ \ / /:::			
\//\:::\/:::/ /	\//\:::\/:::/ / \	//  ::  /:::/ /		V/ /:::/ /	\// \:::\/:::/ / \	V/  ::  /:::/ /
			\:::\ \:::\ \//			
			\:::\ \:::\ <u>\</u> \			
				<del></del>		

# ERROR HANDLING



Two main components requiring error exception handling

#### Loading in local files

Potential error. - unable to locate required files

 Handled by using BEGIN and RESCUE prompting user to refer to README documentation.

#### **User Input**

Potential error. - incorrect data type entered

- Handled by using creating a input check
- Create custom error message for incorrect data type