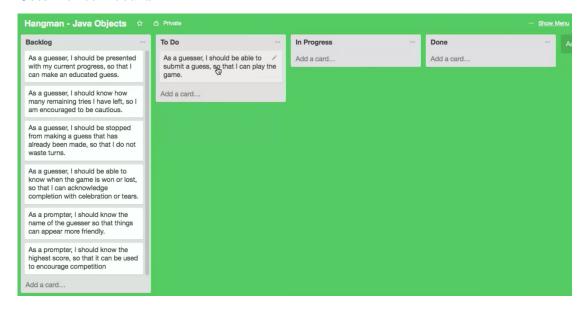
Java Objects Part 3 Notes

Team Treehouse

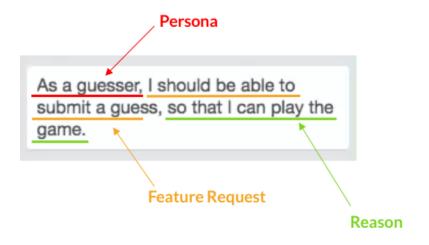
May 23, 2020

1 Planning the MVP

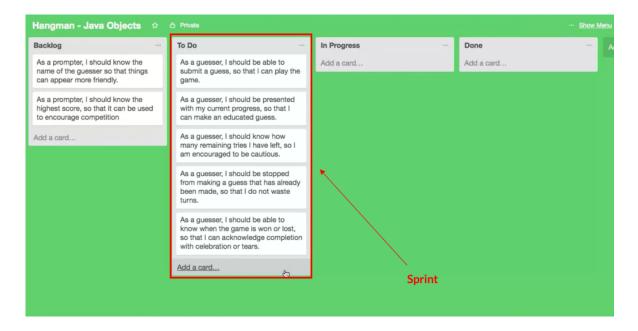
- Priortized backlog of user stories ⇒ a common way of handling scope
 - Uses Kanban board



• Common format of a user story



• Sprint ⇒ Set period of time a list during which work will be completed and will be ready for review (i.e. By the end of the day, dun dun dun...)



2 Quiz 1

- 1. The set of software development practices we talked about exploring is called
 - A. CS
 - B. Bubble Sort
 - C. Agile
 - D. Brogramming

Answer: C

- 2. An MVP can be created by
 - A. defining the minimum requirements to prove that the product is working as hypothesized.
 - B. taking existing code and refactoring it so it is smaller and more compact
 - C. minimizing the number of people working on the project so that the knowledge is with one person only

D. coming up with every possible roadblock and feature that might occur and map it out on a Gantt chart

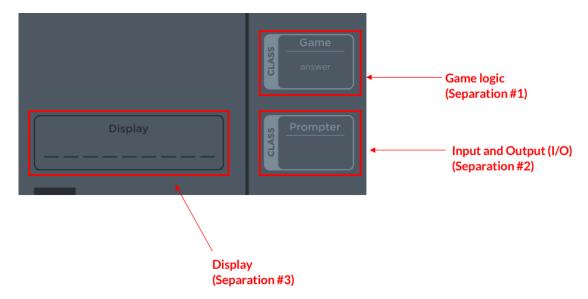
Answer: A

- 3. An MVP in our context stands for
 - A. Mostly Verbatim Process
 - B. Most Valuable Player
 - C. Minimum Viable Product

Answer: C

3 Getting Started

- Separation of concerns heavily considered
 - The Goal is to make the code as reusable as possible, i.e. The same game logic should be applicable in desktop, website, phone in medium other than console



```
public class Game {
    private String answer;

public Game(String answer) {
    this.answer = answer;
}
```

```
6 }
7 }
8
```

Listing 1: lesson_03/Game.java

```
public class Hangman {

public static void main(string[] args) {

Game game = new Game("treehouse");
}

}

}
```

Listing 2: lesson_03/Hangman.java

4 Quiz 1

- 1. What concerns have we chosen to separate?
 - A. We are separating the answer from the guesser.
 - B. We have chosen to separate the display of the game from the logic, or state, of the game.
 - C. We are separating letters from each other so that we can make spaces.

Answer: B

- 2. Due to the separation we have chosen, what outcome can we expect?
 - A. We will be able to run this in other languages like JavaScript or Python.
 - B. We can more easily generate code using external tools.
 - C. We will be able to use the same game logic in other applications, such as console applications, web sites and apps.

Answer: C

5 Storing Guesses

• STRING_VAR.indexOf(VAL): tells the index of beginning value of VAL in string

```
public class Game {
          private String answer;
          private String hits;
          private String misses;
          public Game(String answer) {
6
               this.answer = answer;
               this.hits = "";
               this.misses = "";
          }
11
          public boolean applyGuess(char letter) {
12
               boolean isHit = answer.indexOf(letter) != -1; // <- this guy</pre>
13
     here :)
               if (isHit) {
14
                   hits += letter;
               } else {
16
                   misses += letter;
17
               }
18
               return isHit;
20
          }
21
      }
22
```

Listing 3: lesson_05/Game.java

6 Exercise 1

• Solution included in exercise_1.java

7 Prompting for Guesses

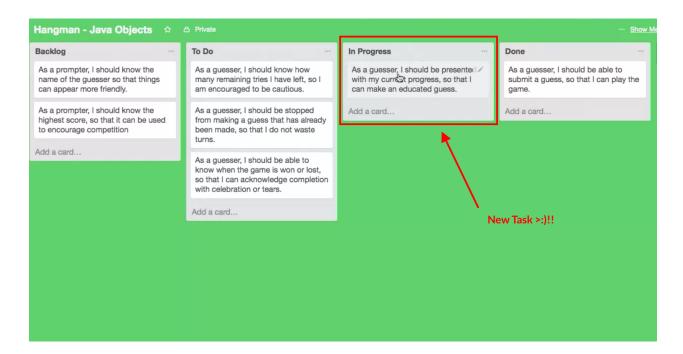
- \bullet Scanner
 - Is similar to stdin in C
 - Lives in *java.util* package

Listing 4: lesson_07/Prompter.java

8 Exercise 2

• Solution included in exercise_2.java

9 Current Progress



- STRING_VAR.toCharArray(): Turns string into a char array
 - Is very similar to python's /x for x in STRING_VAR/

Listing 5: lesson_09/Game.java

Notes:

— Files can be compiled and displayed by typing javac Example.java && java Example in terminal

10 Exercise 3

• Solution included in exercise_3.java