JavaScript for Front-End - Retake Exam Flower Basket

You have been tasked to create a simple Front-End application, which looks like a flower basket harvester. You should create an interface that allows the user to buy pots, plant flowers, harvest flowers and sell flowers.

Task

The task is split into **2 sub-tasks**:

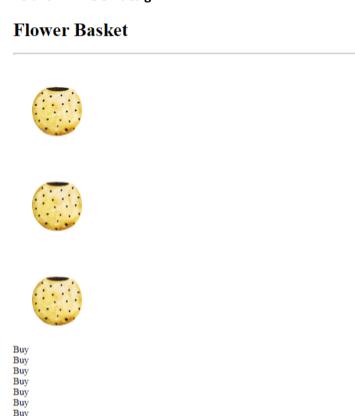
- A simple but fancy web page design.
- A simple but dynamic web page functionality.

The clients are understanding people, and they understand that you are quite novice as a developer, so they are willing to accept ONLY the web page design (without functionality) or ONLY the web page functionality (without design), if you are unable to implement one or the other.

Overview

Web Page Design

The web page should look like this WITHOUT design:







Money: 0

Flowers: 0

SELL

















Flower Basket





Web Page Functionality

The application contains 4 main functionalities:

- **Buying** pots
- **Planting** flowers
- **Harvesting** flowers
- **Selling** flowers

Buying Pots

The application should provide functionality to buying pots on which they can plant flowers. The pots cost money, which can be earned by planting flowers, harvesting them and selling them afterwards.

Buying pots costs \$5.00 money.

Initially the user starts with 3 pots and 0 money.

Planting Flowers Functionality

The application should provide functionality to plant flowers on available pots.

An available pot is a pot which is bought and has NO flower planted on it. As we stated above, by default you have **3 such pots** in the beginning.

When you click on a pot, it should change the image – "waiting" to image – "in-progress".

Note: This simulates a planted plant behaviour.

Once the plant has been planted a timer with 5 seconds should initiate. After 5 second the image should be changed **automatically** to the image – "done".

Note: This simulates a grown plant behaviour.





















Harvesting Plants Functionality

The application should provide functionality to harvest the flowers.

The "done" image should have hover effect. When one flower is ready for harvest (the 5 seconds have passed) on hover you should show the image - "harvest". If you hover out, the image - "done" should be shown again.

If you click the image - "harvest", the flowers count should be incremented with 1 and the image should return to image - "waiting", on that place.

Note: This simulates harvesting plant behaviour.

Selling Plants Functionality

The application should provide functionality to **sell flowers**.

When you harvest flowers, you save them in the flowers count.

Every flower costs \$2.50. When you click the [SELL] button you should sell all flowers, returning the flower count to **0** and **increasing** your **money** by **\$2.50** for each **flower**.

Note: You will be given a GIF representing the complete functionality of the web application.

Constraints

The clients are not that much into Front-End technologies, however:

- They heard **Bootstrap** is a good web page styling framework, and they have requested that you **use it**.
- They heard JavaScript makes pages quite dynamic, and jQuery is a good library, so you must use it.

That being said, you have several constraints to follow, during the implementation of the web application:

- You must use **ONLY Bootstrap** for the **web page design**.
- You must use **ONLY** native **JavaScript** & **jQuery** for the **web page functionality**.

Hints

You can check how to use **setTimeout**, **mouseover** and **mouseout functions** in JavaScript.



















