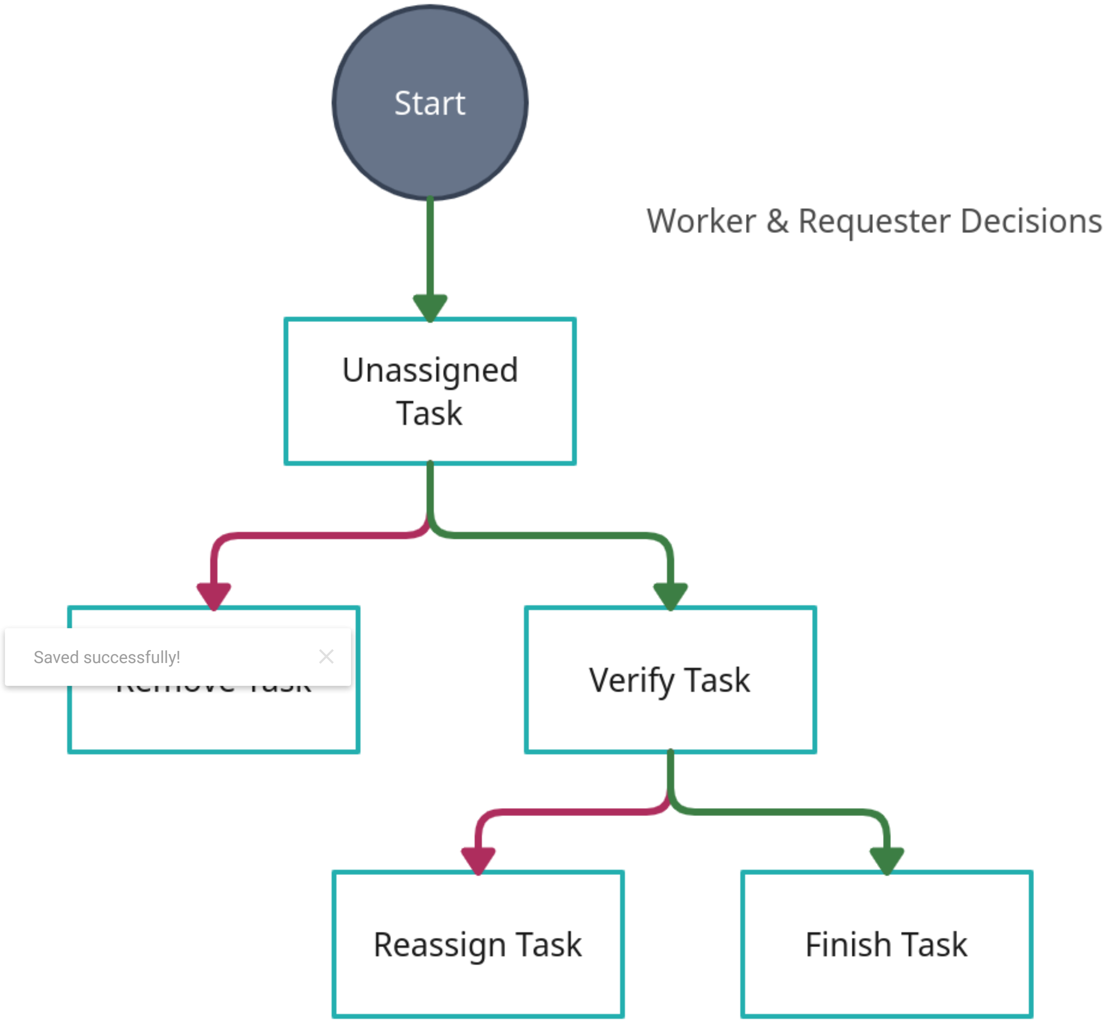
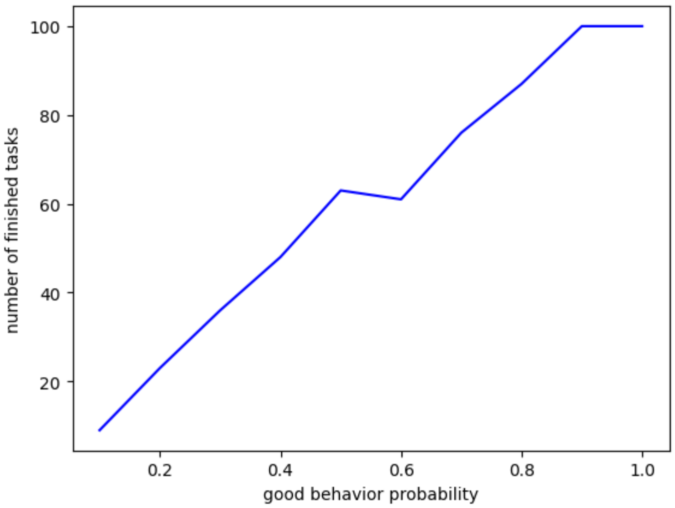
Completed tasks

The number of tasks performed according to the level of well-behaved participants



```
import random as rand


def calculateRequesterBalance(decisionProbability, taskCount):
  if decisionProbability < 0 or decisionProbability > 1:
    raise ValueError(decisionProbability, "Args must be between 0 and 1")
  else:
    result = 0
    for i in range(0, taskCount):
      goodBehaviorProbability = rand.random()
      waitUntilTaskDoneProbability = goodBehaviorProbability / 10
      finishTaskProbability = goodBehaviorProbability * 9 / 10

      # Requester waits until done task
      if waitUntilTaskDoneProbability <= decisionProbability:

        # Finish task by requester
        if finishTaskProbability <= decisionProbability:
          result = result + 1
        # Unfinish task

    return result / taskCount

  return




import matplotlib.pyplot as plt
import numpy as np


def showFinishedTasksCount(testCount):
  requesterInitialBalance = rand.randint(10, 20)
  probabilities = [0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1]
```

```
    outputs = [calculateRequesterBalance(i, testCount) * testCount for i in probabilities]
    plt.plot(probabilities, outputs, 'b-')
    plt.xlabel("good behavior probability")
    plt.ylabel("number of finished tasks")
    plt.show()

showFinishedTasksCount(100)
```



Saved successfully!

Colab paid products - Cancel contracts here

✓ 0s completed at 3:20 PM