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| Outbreak Smartphone App for iPhone  Use Case: Purchase an Item |

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Use Case: Purchase an Item

# Populate Store

## Brief Description

This use case allows the iOS user to purchase an item from the “store” section of the application. The system needs to check if the item is available for purchase. Once the system finds that it is possible for the item to be purchased, the system needs to make sure the funds are available. Once all appropriate checks are completed and passed, the user will then have the item in their inventory.

## Requirements Trace\*\*

1.1, 1.2, 1.3, 1.4, 1.5, 2.2, 2.3, 5.2

## Involved Actors

iOS User

## Preconditions

The store is populated with items

## Post conditions

The iOS user has the item (or a multiplier of the item) in their inventory

## Invariants

iOS user cannot have negative currency

# Flow of Events

## Basic Flow

This use case starts when the iOS user attempts to purchase an item from the store.

* + 1. iOS user attempts to make a purchase from the store.
    2. System checks if the item is locked.
    3. System returns false if the item is not locked.
    4. System checks player’s currency to match with cost of item.
    5. System returns true if the amount of player’s currency matches the cost of item.
    6. System adds item (or multiplier) to iOS user’s inventory.
    7. iOS user notices item (or multiplier) added to inventory.

# Extension Points – None

# Scenarios

## Happy Day

Assumptions: iOS User – John

iOS User has positive correct currency

Item to be chosen is not locked

Steps:

* + 1. John attempts to make a purchase from the store.
    2. System checks if the item is locked.
    3. System returns false if the item is not locked.
    4. System checks player’s currency to match with cost of item.
    5. System returns true if the amount of player’s currency matches the cost of item.
    6. System adds item (or multiplier) to John’s inventory.
    7. John notices item (or multiplier) added to inventory.

## Rainy Day 1 – Inventory doesn’t add item

Assumptions: iOS User – John

iOS User has positive currency

Item to be chosen is not locked

Steps:

* + 1. John attempts to make a purchase from the store.
    2. System checks if the item is locked.
    3. System returns true if the item is locked.
    4. System checks player’s currency to match with cost of item.
    5. System returns true if the amount of player’s currency matches the cost of item.
    6. System fails to add item (or multiplier) to John’s inventory.
    7. John notices that the item (or multiplier) did not add to inventory.

## Rainy Day 2 – Store allows purchase despite lock feature

Assumptions: iOS User – John

iOS User has positive currency

Item to be chosen is locked

Steps:

* + 1. John attempts to purchase a locked item from the store.
    2. System checks if the item is locked.
    3. System returns true if the item is locked.
    4. System checks player’s currency to match with cost of item.
    5. System returns true if the amount of player’s currency matches the cost of item.
    6. System adds locked item (or multiplier) to John’s inventory.
    7. John notices that the locked item (or multiplier) added to inventory.

## Rainy Day 4 – Store allows purchase with less than required amount to purchase item

Assumptions: iOS User – John

iOS User has positive currency, but less than required amount needed

Steps:

* + 1. John attempts to purchase a locked item from the store.
    2. System checks if the item is locked.
    3. System returns true if the item is locked.
    4. System checks player’s currency to match with cost of item.
    5. System returns true if the amount of player’s currency does not match the cost of item.
    6. System adds item (or multiplier) to John’s inventory.
    7. John notices that the item (or multiplier) added to inventory.