# IT 140 Design Document

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## Storyboard (Description and Map)

Lost in the woods, far from home, you spot a cottage that looks warm and inviting. You knock and the door opens slowly but no one replies when you call out. As you enter the cottage entry way the door suddenly closes behind you and you cannot escape. Your fear causes the hairs on your neck to electrify senses a presence within the house. Suddenly a face appears floating in a ring of fire before you of an old women laughing that you will never leave this place and at that moment you realize you must find an exit. Your task is to obtain a magical item from each room to defeat the evil sorceress. The items required are a magic wand within the bedroom, a bag of magic dust to slow time within the kitchen, enchanted armor to shield yourself in the dining room, a vial of magic potion to turn the villain to stone, a spell book from the library, and the bracelet of permeability in the gallery to walk through a mirror towards your exit. All must be obtained in order to survive and leave this spelled cottage. Good luck and may your internal compass guide you.

A diagram of different colors

Description automatically generated

## Pseudocode or Flowchart for Code to “Move Between Rooms”

A diagram of a diagram

Description automatically generated

## Pseudocode or Flowchart for Code to “Get an Item”

Trapped in Magic Adventure Game

Collect 6 items to defeat the evil sorceress and escape or be trapped forever.

Move commands: Go South, Go North, Go East, Go West

Add to inventory : Get ‘item name’

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DEF Rooms/Route

DEF inventory

START

PRINT Welcome Message

WHILE TRUE

INPUT Direction choice ( Where to start, state your direction ( N/S/E/W) or F to finish and be stuck forever)

IF Where equals F

BREAK

IF where in room/route

PRINT You are in the + room

PRINT Congratulations you found + item + location found

ELSE

PRINT Sorry no path in that direction: You are back to Start

BREAK Loop back to start

IF room is equal to Basement + all items found

PRINT Fighting the Evil Sorceress

PRINT You are free

BREAK

ELSE

PRINT Sorry not strong enough : You are back to Start

BREAK Loop back to start