# IT 140 Design Document

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## Storyboard (Description and Map)

Upon entering the ruins of this ancient castle, you realize something doesn’t seem quite right. There’s a presence in the air, the magic remnants touching everything the Grand Mage has used. Little do you know, this place won’t be your sanctuary for long unless you get rid of the Grand Mage lurking on the second floor. In order to defeat the Grand Mage, you must raid his trophy room for a long bow and arrows for long range protection, enter his study to get magical protection robes to protect from his spellcasting, head to the kitchens for a health potion to keep up in battle, the library holds an iron mace for close combat fighting, his bedroom should a shield for blocking, and the bathroom should have a poison to poison your mace and inflict more damage. You must locate and equip each item before facing the Grand Mage.



**Attic:**

Beware! Grand Mage is here!

**Bathroom:**

Weapon Poison

**Receiving Hall:**

Start Here

**Bedroom:**

Shield

**Library:**

Iron Mace

**Kitchens:**

Health potion

**Study:**

Magical protection robes

**Trophy Room:**

Long bow and arrows

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

Commands: Go North, Go South, Go East, Go West

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

Add to inventory: get ‘item’

**Pseudocode:**

Collect 6 items to fight the Grand Mage and win the game.

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

Add to Inventory: get 'item'

Player starts in the Receiving Hall

Inventory: []

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Enter move command:

go North

You are in the Bathroom

Inventory: []

You see a weapon poison

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Enter move command:

Get weapon poison

Weapon poison retrieved!

You are in the Bathroom

Inventory: ['Weapon Poison']

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Enter move command:

Go south

You are in the Receiving Hall

Inventory: ['Potion']

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Enter move command:

Go west

You are in the Trophy Room

Inventory: ['Potion']

You see a longbow and arrows

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Enter move command:

Get longbow and arrows

Longbow and arrows retrieved!

You are in the Trophy Room

Inventory: ['Potion’, ‘longbow and arrows’]

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Enter move command:

Go east

You are in the Receiving Hall

Inventory: ['Potion', ‘longbow and arrows]

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Enter move command:

Go south

You are in the Kitchens

Inventory: ['Potion', ‘longbow and arrows’]

You see a health potion

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Enter move command:

Get potion

Potion obtained!

You are in the Kitchens

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’]

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Enter move command:

Go East

You are in the Bedroom

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’]

You see a shield

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Enter move command:

Get shield

Shield obtained!

You are in the Bedroom

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’]

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Enter move command:

Go west

You are in the Kitchens

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’]

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Enter move command:

Go north

You are in the Receiving Hall

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’]

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Enter move command:

Go east

You are in the Library

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’]

You see an iron mace

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Enter move command:

Get iron mace

Iron mace obtained!

You are in the Library

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’]

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Enter move command:

Go north

You are in the Study

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’]

You see magical protection robes

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Enter move command:

Get magical protection robes

Magical protection robes obtained!

You are in the Study

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’, ‘Magical Protection Robes’]

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Enter move command:

Go south

You are in the Library

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’, ‘Magical Protection Robes’]

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Enter move command:

Go west

You are in the Receiving Hall

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’, ‘Magical Protection Robes’]

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Enter move command:

Go north

You are in the Bathroom

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’, ‘Magical Protection Robes’]

You see a weapon poison

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Enter move command:

Get weapon poison

Weapon poison obtained!

You are in the Bathroom

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’, ‘Magical Protection Robes’, Weapon Poison]

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Enter move command:

Go east

You are in the attic

Inventory: ['Potion', ‘Longbow and Arrows’, ‘Health Potion’, ‘Shield’, ‘Iron Mace’, ‘Magical Protection Robes’, Weapon Poison]

You see a Grand Mage

You have collected each item that is needed to defeat the Grand Mage

Congratulations! You have defeated the Grand Mage and claimed you sanctuary.

Thanks for playing! I hope you’ve had fun!