# IT 140 Design Document for Project One

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## Storyboard:

Queen Autumn (Character Created by Jess Vieira ©) has become corrupted with a virus and is now wreaking havoc in cyberspace. You need to stop her and remove the virus from Queen Autumn and reboot her original programming before she takes over the entirety of cyberspace. In order to defeat Queen Autumn and remove the virus from her, you need these control chips for your Buster Gauntlet. The Code Debugger chip to debug and weaken the virus, the Firewall chip to protect you from Queen Autumn’s glitches and hacks, The Virus Scan chip to officially locate Queen Autumn’s source and lair, The Trojan Horse chip to open the protected entrance of Queen Autumn’s lair, The Anti-Virus chip to officially remove the virus from Queen Autumn once she is weakened with the code debugger chip and the Reboot chip to bring back Queen Autumn’s original programming. Tread Carefully and stop Queen Autumn!

Here is the map of cyberspace with the rooms locating the items needed for your journey:

East

North

West

East

South

West

East

South

North

West

East

North

South

West

The Main Server

Chip: Reboot

The Cloud

Chip: Code Debugger

The Web Browser

Chip: Trojan Horse

Queen Autumn’s Lair

(Queen Autumn sits on her throne)

The Data Processing Center

Chip: The Virus Scan

The Ethernet Port

Chip: Firewall

Cyberspace Entrance

(The Start of your Journey)

Queen Autumn’s Glitch Dungeon

(Beware of Glitches!)

Chip: Anti-Virus

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

Start current\_room = “Cyberspace Entrance”

#Beginning of Loop

INPUT direction

IF current\_room IS “Cyberspace Entrance”

IF direction is “South”

current\_room = “The Main Server”

ELSE IF direction is “East”

current\_room = “The Ethernet Port

ELSE IF direction is “West”

current\_room = “Unable to Proceed”

ELSE IF direction is “North”

current room = “Unable to Proceed”

ELSE

OUTPUT “Unable to Proceed”

#Go to Beginning of Loop after each move, loop repeats

#Loop End

IF current\_room is “Queen Autumn’s Lair”

IF items IS “Buster Gauntlet is powered up!”

ELSE IF current\_room = “Queen Autumn’s Lair”

OUTPUT “You have successfully debugged and wiped the virus from Queen Autumn’s Programming! Game Over!”

ELSE

OUTPUT “Queen Autumn has taken over your programming and now you serve as her slave in her new cyberspace domain dubbed The Realm of the Glitch Queen. Game Over!”

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

Start current\_room = “The Main Server”

#Beginning of Loop

INPUT look

IF current\_room is “The Main Server”

OUTPUT “You have gained the Reboot Chip”

ELSE IF INPUT look after gaining chip

OUTPUT “You have already found the chip in this area”

#Go to Beginning of Loop after each look, loop repeats

#Loop End

Written Permission for the use of Queen Autumn by the creator, Jess Vieira

Text, letter

Description automatically generated