

Actors: Player

Preconditions: Item is found in the world.

Basic sequence:

Step 1: Player encounters the item

Step 2: Player presses the appropriate key to pick up the item

Step 3: Adds the item to the players inventory if there is room

Exceptions:

Step 1: There is not enough room in players inventory: Error message explaining

Post conditions: Item is in inventory

Priority: 1*

ID: C01

*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

Name: Access Inventory

Summary: Player will be able to access their items to drop, equip, un-equip, and use items

Actors: Player

Preconditions: Player presses their inventory key.

Basic sequence:

Step 1: Player opens up their inventory

Step 2: Player can select items to manipulate and see visually their inventory

Exceptions:

Step 1: If inventory is empty then display empty inventory

Post conditions: Item is in inventory

Priority: 1*

ID: C02

*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

Name: Drop Item

Summary: The player Access's their inventory then selects drop item. The item will then be removed from their inventory.

Actors: Player

Preconditions: Player Access' their inventory, selects an item to drop.

Basic sequence:

Step 1: Player access' their inventory

Step 2: Player selects item

Step 3: Player selects drop item

Exceptions:

Step 1: Drop Item is accidentally selected

Step 2: Display error message before dropping the item to make sure this is what the player intended

Post conditions: Item is removed from inventory freeing up room

Priority: 2*

ID: C03

*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

Name: Un-Equip Item

Summary: The Player will be able to Un-Equip an item that have currently equipped

Actors: Player

Preconditions: The player no longer wants the item equipped maybe to remove a negative status effect or change items to fit the situation

Basic sequence:

Step 1: Player access' their inventory

Step 2: Player can view their equipped items

Step 3: Player can select the item they wish to un-equip

Step 4: Player un-equips an item

Exceptions:

Step 1: If the item is not equipped, Tell the player the item they selected is not equipped

Step 2: Player accidentally selects un-equip item: Move item to inventory

Step 3: Player selects un-equip item and their inventory is full: Tell the player that action is not allowed as their inventory is full

Post conditions: Item is in inventory, Character Status is adjusted accordingly

Priority: 2*

ID: C04

*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

Name: Equip Item

Summary: The player can select an item and equip it

Actors: Player

Preconditions: Item in their inventory is equipped.

Basic sequence:

Step 1: Player selects item to equip

Step 2: Player equips the item

Step 3: Removes from inventory to show equipped status

Step 4: Change the player stats accordingly

Exceptions:

Step 1: There is an item already equipped: Error message asking if they would like to swap the items

Post conditions: Item is in the equipped slot with character stats changed accordingly

Priority: 2*

ID: C05

*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

Name: Use Item/Consumable

Summary: The player can select a consumable item and use it

Actors: Player

Preconditions: Consumable item must be in their inventory, and they cannot already have the same consumable effect applied to them.

Basic sequence:

Step 1: Player access' their inventory

Step 2: Player selects item to use

Step 3: Player selects use item

Step 4: Item is destroyed and status is applied

Exceptions:

Step 1: They already have the consumable effect applied to them: Give them an error message explaining that the effect has been applied.

Post conditions: Item is destroyed, removed from inventory, and status applied to player.

Priority: 3*

ID: C06

*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

Name: Main Character Stat

Summary: The Players Character stats are effected by their actions

Actors: Player

Preconditions: Item is used, equipped, or un-equipped

Basic sequence:

Step 1: Player selects item to equip, use, or un-equip

Step 2: Player status' change accordingly

Exceptions:

Step 1: If an action cannot be performed for any reason: Display error message do not change stats

Post conditions: Character Stats' are changed

Priority: 1*

ID: C07

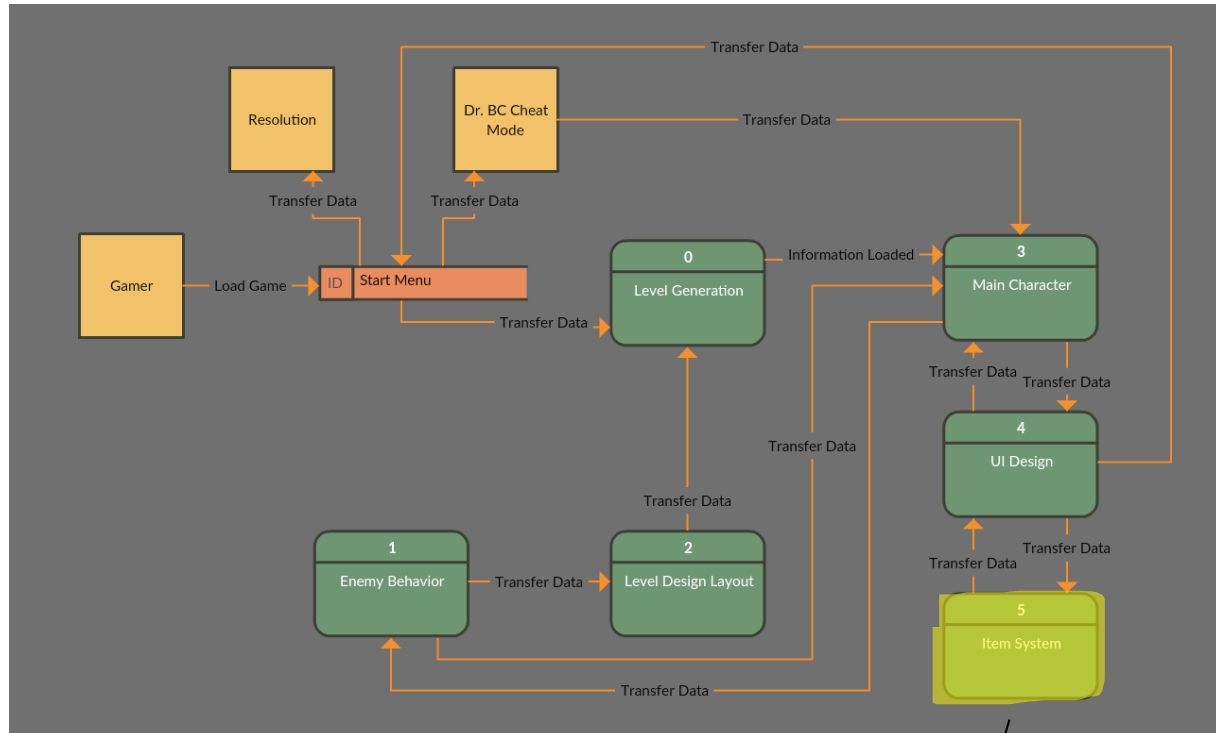
*The priorities are 1 = must have, 2 = essential, 3 = nice to have.

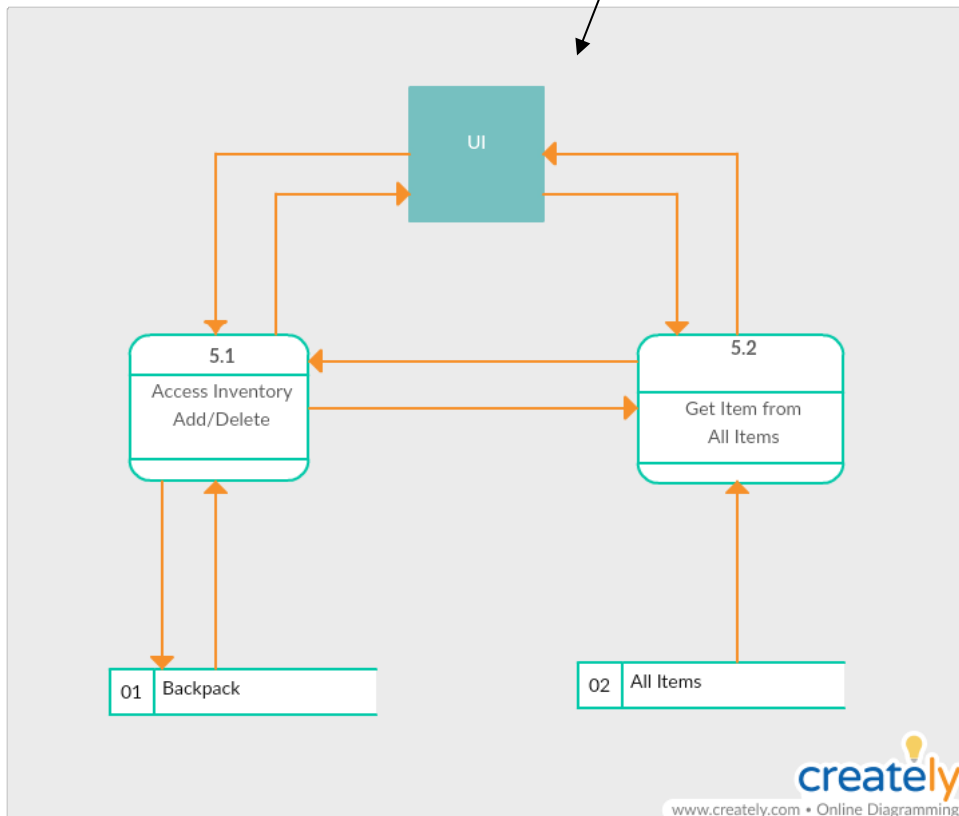
3. Data Flow diagram(s) from Level 0 to process description for your feature ____14

[Get the Level 0 from your team. Highlight the path to your feature]

Example:

Data Flow Diagrams





Process Descriptions

Access Inventory*:

```

IF UI needs to access inventory
  Traverse backpack and display information
END IF
IF UI needs to add an item to backpack
  Send an item key to GET ITEM FROM ALL ITEMS
  Then add it to empty backpack slot
END IF
IF UI needs to delete an item
  Find item in backpack and delete
ENDIF
IF item is being equipped
  Change item status to equip
  return item info
END IF
  
```

Get Items From All Items*:

```

IF UI Needs Item Info
  Get item info from All Items
  Return item info
END IF
  
```

IF Access Inventory Needs Item Info
Get item info from All Items
Return item info
END IF

4. Acceptance Tests _____9

Access Inventory Add/Delete

Add every item to every slot in the back pack
(Test communication with Get Item From All Items)

The output should (essentially testing bounds)

- Display every item in every slot
- No two items should be in the same slot
- Backpack should not be overfilled
- Every slot in the backpack will have something in it

Get items From All Items

Be able to pull items from All Items and send the item information.

The input should be able to take an item key and return the correct item information

The output should be

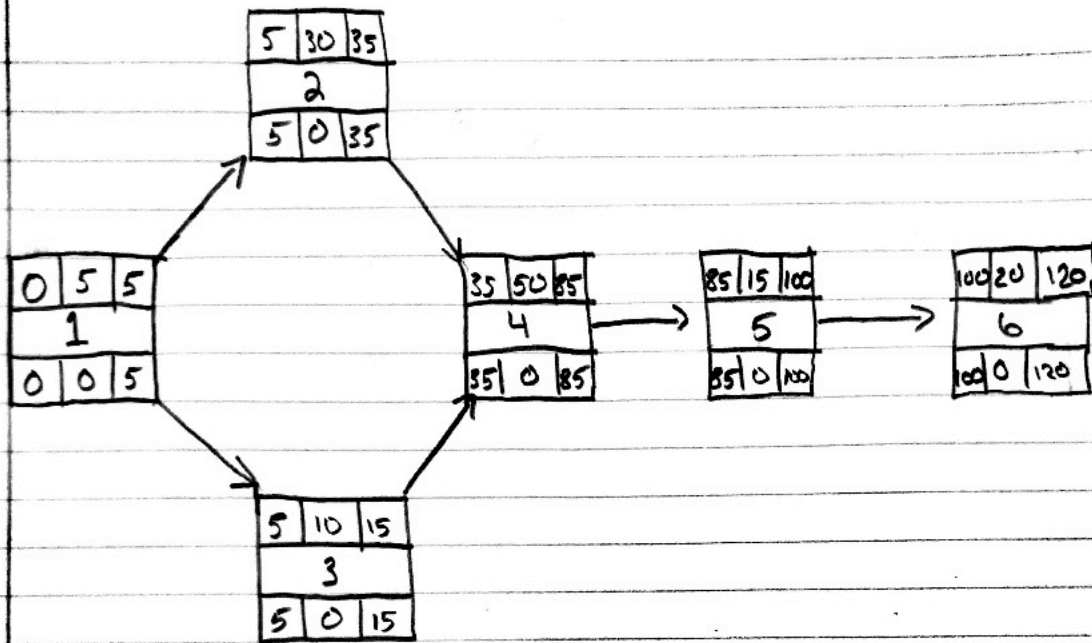
- Correct item info for every key generated

5. Timeline _____/10

Work items

| Task | Duration Hours | Predecessor Task(s) |
|---------------------------------|----------------|---------------------|
| 1. Collect Required information | 5 | - |
| 2. Construct all Item Database | 30 | 1 |
| 3. Construct Backpack Database | 10 | 1 |
| 4. Programming | 50 | 2,3 |
| 5 Testing | 15 | 4 |
| 6. Installation of Item System | 20 | 5 |

Pert diagram



Gantt timeline

