# **Project Cataclysm**

## **Team 31 - Sprint 3 Testing Document**

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## **User Story 3d:**

#### Test Case 3d.1

System: Project Cataclysm {Entities} Phase 3

Water explosive ignition occurs with redstone signal

Severity: 1

#### **Instructions:**

1. In-game, use a "active" redstone signal connected to the "Water Explosive" block

### **Expected Result:**

- 2. The explosive block should be destroyed (disappear)
- 3. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 3d.2

System: Project Cataclysm {Entities} Phase 3

Water explosive ignition occurs with player item-activation

Severity: 1

#### **Instructions:**

- 1. In-game, use the following items as a player on the "Water Explosive" block (right-click onto the block)
  - a. Flint & Steel
  - b. Fire Charge

- 2. The explosive block should be destroyed (disappear)
- 3. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

#### Test Case 3d.3

System: Project Cataclysm {Entities} Phase 3

Water explosive explosion effect occurs

Severity: 2

#### **Instructions:**

1. Ignite the "Water Explosive" block by the either of the following two methods (from either test case 3d.1 and 3d.2)

### **Expected Result:**

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer
- 3. After a few seconds, the entity should be destroyed, and a large body of water should appear (of about 10-15 block diameter). It should also spawn sea creatures consisting of sea-turtles, dolphins, squid, and fish in the explosion radius as well

## **User Story 3e:**

#### Test Case 3e.1

System: Project Cataclysm {Entities} Phase 3

Nature explosive ignition occurs with redstone signal

Severity: 1

#### **Instructions:**

1. In-game, use a "active" redstone signal connected to the "Nature Explosive" block

### **Expected Result:**

2. The explosive block should be destroyed (disappear)

3. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

#### Test Case 3e.2

System: Project Cataclysm {Entities} Phase 3

Nature explosive ignition occurs with player item-activation

Severity: 1

#### **Instructions:**

- 1. In-game, use the following items as a player on the "Nature Explosive" block (right-click onto the block)
  - a. Flint & Steel
  - b. Fire Charge

#### **Expected Result:**

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

#### Test Case 3e.3

System: Project Cataclysm {Entities} Phase 3

Nature explosive explosion effect occurs

Severity: 2

#### **Instructions:**

1. Ignite the "Nature Explosive" block by the either of the following two methods (from either test case 3e.1 and 3e.2)

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

3. After a few seconds, the entity should be destroyed, it should spawn various different plants in the surrounding radius, as well as spawn a single beehive and 2 bees, given that the explosive occurred on the correct supporting terrain (grass, dirt, or mud)

## **User Story 3o:**

#### **Test Case 30.1**

System: Project Cataclysm {Entities} Phase 3

Cluster explosive ignition occurs with redstone signal

Severity: 1

#### **Instructions:**

1. In-game, use a "active" redstone signal connected to the "Cluster Explosive" block

### **Expected Result:**

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 3o.2

System: Project Cataclysm {Entities} Phase 3

Cluster explosive ignition occurs with player item-activation

Severity: 1

#### **Instructions:**

- 1. In-game, use the following items as a player on the "Cluster Explosive" block (right-click onto the block)
  - a. Flint & Steel
  - b. Fire Charge

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

## **Test Case 30.3**

System: Project Cataclysm {Entities} Phase 3

Cluster explosive explosion effect occurs

Severity: 2

### **Instructions:**

1. Ignite the "Cluster Explosive" block by the either of the following two methods (from either test case 30.1 and 30.2)

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer
- 3. After a few seconds, the entity should be destroyed, it should create a large explosion of ~10 blocks diameter, and shoot out many smaller explosives with random velocities, these should explode after a similar time delay to the first

## User Story 3p:

## Test Case 3p.1

System: Project Cataclysm {Items} Phase 3
Disarming device removes explosives when right-clicked on an active mod-explosive-entity

Severity: 3

#### **Instructions:**

- 1. In-game, ignite any of the added mod explosives (not TNT from the base-game!)
- 2. With the "Disarming Device" in either player-hand, right-click onto the explosive-entity

### **Expected Result:**

- 1. The explosive entity should be destroyed (disappear)
- 2. Particles of smoke and a "hiss" sound should play, indicating the explosive was defused

## Test Case 3p.2

System: Project Cataclysm {Items} Phase 3

Disarming device is damaged when used in survival-mode

Severity: 2

#### **Instructions:**

- 1. In-game, ignite any of the added mod explosives (not TNT from the base-game!)
- 2. With the "Disarming Device" in either player-hand, right-click onto the explosive-entity

## **Expected Result:**

1. The disarming device should lose 1 point of durability

2. The disarming device should break when used with 0 durability, after the effect of disarming (3p.1) occurs

## **User Story 3f:**

#### **Test Case 3f.1**

System: Project Cataclysm {Entities} Phase 3

Poison explosive ignition occurs with redstone signal

Severity: 1

#### **Instructions:**

1. In-game, use a "active" redstone signal connected to the "Poison Explosive" block

### **Expected Result:**

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 3f.2

System: Project Cataclysm {Entities} Phase 3

Poison explosive ignition occurs with player item-activation

Severity: 1

#### **Instructions:**

- 1. In-game, use the following items as a player on the "Poison Explosive" block (right-click onto the block)
  - a. Flint & Steel
  - b. Fire Charge

- 2. The explosive block should be destroyed (disappear)
- 3. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 3f.3

System: Project Cataclysm {Entities} Phase 3

Poison explosive explosion effect occurs

Severity: 2

### **Instructions:**

1. Ignite the "Poison Explosive" block by the either of the following two methods (from either test case 3f.1 and 3f.2)

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer
- 3. After a few seconds, the entity should be destroyed, and players within the blast range should be poisoned for 5 seconds.

## User Story 3i:

#### Test Case 3i.1

System: Project Cataclysm {Entities} Phase 3

Earth explosive ignition occurs with redstone signal

Severity: 1

#### **Instructions:**

1. In-game, use a "active" redstone signal connected to the "Earth Explosive" block

### **Expected Result:**

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 3i.2

System: Project Cataclysm {Entities} Phase 3

Earth explosive ignition occurs with player item-activation

Severity: 1

#### **Instructions:**

- 1. In-game, use the following items as a player on the "Earth Explosive" block (right-click onto the block)
  - c. Flint & Steel
  - d. Fire Charge

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 3i.3

System: Project Cataclysm {Entities} Phase 3

Earth explosive explosion effect occurs

Severity: 2

### **Instructions:**

1. Ignite the "Earth Explosive" block by the either of the following two methods (from either test case 3i.1 and 3i.2)

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer
- 3. After a few seconds, the entity should be destroyed, and 3 hills of earth and stone should spawn.

## **User Story 31:**

#### Test Case 31.1

System: Project Cataclysm {Entities} Phase 3

Suction explosive ignition occurs with redstone signal

Severity: 1

#### **Instructions:**

1. In-game, use a "active" redstone signal connected to the "Suction Explosive" block

### **Expected Result:**

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 31.2

System: Project Cataclysm {Entities} Phase 3

Suction explosive ignition occurs with player item-activation

Severity: 1

#### **Instructions:**

- 1. In-game, use the following items as a player on the "Suction Explosive" block (right-click onto the block)
  - e. Flint & Steel
  - f. Fire Charge

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer

### Test Case 31.3

System: Project Cataclysm {Entities} Phase 3

Suction explosive explosion effect occurs

Severity: 2

### **Instructions:**

1. Ignite the "Suction Explosive" block by the either of the following two methods (from either test case 3l.1 and 3l.2)

- 1. The explosive block should be destroyed (disappear)
- 2. An entity, that looks the same as the explosive block should appear, it should "blink" to indicate it's fuse timer
- 3. After a few seconds, the entity should be destroyed, and players should be sucked towards the epicenter.

## **User Story 5e:**

#### Test Case 5e.1

System: Project Cataclysm {Pull Wand}Phase 2

Target is pulled towards the user

Severity: 3

#### **Instructions:**

1. In-game, right click on a player or mob

## **Expected Result:**

- 1. Target should be pulled towards the user
- 2. Cooldown for spell should be indicated in chat
- 3. User should be notified in chat that spell was used

### Test Case 5e.2

System: Project Cataclysm {Pull Wand} Phase 2

Spell is put on cooldown

Severity: 2

#### **Instructions:**

- 1. In-game, right click on a player or mob
- 2. Within 2 seconds after initial use, right click another player or mob

## **Expected Result:**

- 1. The spell should not work
- 2. User should be notified of the remaining cooldown time in chat

### Test Case 5e.3

System: Project Cataclysm {Pull Wand} Phase 2 Spell works on targets within 20 blocks from user

## Severity: 2

### **Instructions:**

- 1. In-game, right click on a player or mob that is within 20 blocks of user
- 2. In-game right click on a player or mob that is further than 20 blocks away

- 1. Cobwebs should appear around the target if the target is within 20 blocks.
- 2. Target should not be pulled if target is not within 20 blocks.

## **User Story 2e:**

#### Test Case 2e.1

System: Project Cataclysm {Bazooka} Phase 3

Bazooka Shoots

Severity: 3

#### **Instructions:**

1. In-game, select item in hotbar (holding in right hand)

2. Press right click on the mouse

### **Expected Result:**

1. Gun should only shoot one RPG per click

- 2. Gun should be unusable for 2 seconds after each shot
- 3. Ammo indicator should be shown in chat

### Test Case 2e.2

System: Project Cataclysm {Bazooka} Phase 3

RPG projectile explodes on impact

Severity: 3

#### **Instructions:**

- 1. In-game, select item in hotbar (holding in right hand)
- 2. Press right click on the mouse

- 1. A Projectile should exit the weapon
- 2. The projectile should fly until it collides with an object or entity
- 3. The projectile should explode damaging surrounding entities
- 4. The projectile should also destroy the surrounding blocks

## **User Story 2f:**

#### Test Case 2f.1

System: Project Cataclysm {Spray Gun} Phase 3

Spray Gun fires

Severity: 3

#### **Instructions:**

1. In-game, select item in hotbar (holding in right hand)

2. Press right click on the mouse

### **Expected Result:**

1. Gun should continuously shoot

- 2. The bullets should exit the weapon at a random speed and direction (within the players POV)
- 3. Ammo indicator should be shown in chat

#### Test Case 2f.2

System: Project Cataclysm {Spray Gun} Phase 3

Spray Gun reload

Severity: 2

#### **Instructions:**

1. Fire gun until the notification in the chat shows 0 bullets remaining

- 1. "Reloading" should appear in chat
- 2. The gun should be unusable during reload
- 3. Duration should last for 2 seconds
- 4. After the gun should have a full clip

## **User Story 2g:**

## Test Case 2g.1

System: Project Cataclysm {Almighty Push Wand} Phase 3

Almighty Push Wand moves all entities away

Severity: 3

#### **Instructions:**

1. In-game, select item in hotbar (holding in right hand)

2. Press right click on the mouse

### **Expected Result:**

1. All living entities should be pushed away from user

- 2. All items on the ground should be pushed away from user
- 3. Effect should be applied in an area of effect (AOE) around user

## Test Case 2g.2

System: Project Cataclysm {Almighty Push Wand} Phase 3

Almighty Push Wand is put onto cooldown

Severity: 2

#### **Instructions:**

1. In-game, right click on the mouse

- 1. Wand is unusable during the 5 second cooldown
- 2. Cooldown should be indicated in hotbar by an animation over the item
- 3. Beginning time for cooldown should be indicated in the chat

## **User Story 5f:**

#### Test Case 5f.1

System: Project Cataclysm {Portal Gun} Phase 3

Portal Gun Shooting Functionality

Severity: 3

#### **Instructions:**

1. In-game, select item in hotbar (holding in right hand)

- 2. Press the "J" key on keyboard
- 3. Press right click on the mouse and shoot at a block below player
- 4. Press the "K" key on keyboard
- 5. Press right click on the mouse and shoot at a different block below player
- 6. Press the "H" key on keyboard

### **Expected Result:**

- 1. After pressing "J" a message in chat should say "Blue Portal"
- 2. After right clicking a blue projectile should come out and on impact a blue teleporter block should spawn (as long as the hit result is below the player)
- 3. After pressing "K" a message in chat should say "Orange Portal"
- 4. After right clicking a orange projectile should come out and on impact an orange teleporter block should spawn (as long as the hit result is below the player)
- 5. After pressing "H" a message in chat should say "Cleared Portals" and then the blue and orange teleporter blocks should disappear and the blocks that was originally there should reappear.

## Test Case 5f.2

System: Project Cataclysm {Portal Gun} Phase 3

Teleport Living Entity once stepping on top of block

Severity: 3

#### **Instructions:**

- 1. In-game, select item in hotbar (holding in right hand)
- 2. Press the "J" key on keyboard
- 3. Press right click on the mouse and shoot at a block below player
- 4. Press the "K" key on keyboard
- 5. Press right click on the mouse and shoot at a different block below player
- 6. Step onto the Blue teleporter block

### **Expected Result:**

- 1. Player should be teleported to the orange teleporter block
- 2. The player should not teleport back to the blue block while standing on it unless waiting the full 3 second cooldown

### Test Case 5f.3

System: Project Cataclysm {Portal Gun} Phase 3

Teleport Item Entity once dropping on top of block

Severity: 3

#### **Instructions:**

- 1. In-game, select item in hotbar (holding in right hand)
- 2. Press the "J" key on keyboard
- Press right click on the mouse and shoot at a block below player within eyesight
- 4. Press the "K" key on keyboard
- 5. Press right click on the mouse and shoot at a different block below player within view
- 6. Select a different item in hotbar
- 7. Press "Q" to drop the item onto the blue teleporter block

- 1. Player should be able to see the item teleported to the orange teleporter block
- 2. The item should not teleport back to the blue teleporter block until the 3 second cooldown is expended.

## **User Story 4c:**

#### **Test Case 4c.1**

System: Project Cataclysm {Launch Platform} Phase 3

Redstone Missile Launch Failure

Severity: 3

#### **Instructions:**

1. In-game, place down Launch Platform without putting in items

2. Provide a redstone signal to the control panel

### **Expected Result:**

1. Nothing will happen, because the required materials are not present

### Test Case 4c.2

System: Project Cataclysm {Launch Platform} Phase 3

Redstone Missile Launch Success

Severity: 3

#### **Instructions:**

- 1. In-game, place down Launch Platform
- 2. Put in Missile Head, Missile Tail, and any Explosive
- 3. Select a target location
- 4. Provide a redstone signal to the control panel

- 1. A missile is created at the launch pad and shoot upwards
- 2. The missile travels to the target location and explodes

## **User Story 4d:**

#### Test Case 4d.1

System: Project Cataclysm {Launch Platform} Phase 3

Remote Control Sync

Severity: 3

#### **Instructions:**

1. In-game, right click the Remote Control while crouching and looking at Control Panel

2. Right click the Remote Control again

### **Expected Result:**

- 1. The Remote Control shines and a message appears indicating the Remote Control is synced
- 2. The Remote Control GUI will open

### Test Case 4d.2

System: Project Cataclysm {Launch Platform} Phase 3

Remote Control Missile Launching

Severity: 3

## **Instructions:**

- 1. In-game, right click synced Remote Control to open GUI
- 2. Select a target location on grid
- 3. Click launch button

- 1. A missile is created at the synced Launch Pad and shoots upwards
- 2. The missile travels to the target location and explodes

## **User Story 4e:**

#### Test Case 4e.1

System: Project Cataclysm {Launch Platform} Phase 3

Control Panel Entity Selection

Severity: 3

#### **Instructions:**

1. In-game, place down Launch Platform

- 2. Put in Missile Head, Missile Tail, and any Explosive
- 3. Select location of enemy player entity
- 4. Launch the missile

- 1. The GUI shows the locations of all player entities
- 2. A missile is created at the launch pad and shoot upwards
- 3. The missile travels to the enemy location and explodes