

Quest Expansion Guide

Where to Add New Quests

You have **TWO** quest systems in your game:

1. IntroQuestHandler (Sequential Tutorial Quests)

- **Location:** `IntroQuestHandler.java`
- **Purpose:** Linear tutorial quests that unlock features
- **NPC:** Fionne only
- **Indicator:** Managed automatically by `IntroQuestHandler`

2. NPC Quest System (Traditional Quests)

- **Location:** `NPC.java` and `Quest.java`
 - **Purpose:** Regular quests with objectives
 - **NPCs:** Any NPC with quests added
 - **Indicator:** Managed by NPC component (if GameLogic methods restored)
-

Option A: Add to IntroQuestHandler (Sequential)

Use this for **tutorial quests** that must happen in order.

Example: Add Stage 4 - Kill 5 Goblins

Step 1: Add Enum Values

In `IntroQuestHandler.java`, add to the `IntroStage` enum:

```
java
```

```
public enum IntroStage {  
    NOT_STARTED,  
    STAGE_1_DIALOGUE,  
    STAGE_1_COMPLETE,  
    STAGE_2_EQUIP_SWORD,  
    STAGE_2_COMPLETE,  
    STAGE_3_DIALOGUE,  
    STAGE_3_COMPLETE,  
  
    // ★ NEW: Stage 4  
    STAGE_4_DIALOGUE,    // Fionne asks you to kill goblins  
    STAGE_4_IN_PROGRESS, // Killing goblins  
    STAGE_4_COMPLETE,   // Return to Fionne for reward  
  
    ALL_COMPLETE  
}
```

Step 2: Add to handleFionneInteraction()

java

```
public boolean handleFionneInteraction(Entity npcEntity) {  
    // ... existing code ...  
  
    switch (currentStage) {  
        // ... existing cases ...  
  
        case STAGE_3_COMPLETE:  
        case STAGE_4_DIALOGUE:  
            showStage4Dialogue(ui); // ★ NEW  
            return true;  
  
        case STAGE_4_IN_PROGRESS:  
            checkStage4Progress(ui); // ★ NEW  
            return true;  
  
        case STAGE_4_COMPLETE:  
            showStage4Completion(ui); // ★ NEW  
            return true;  
  
        case ALL_COMPLETE:  
            // ... existing code ...  
    }  
}
```

Step 3: Add Dialogue Methods

java

```

/**
 * ★ NEW: Stage 4 - Kill 5 Goblins
 */
private void showStage4Dialogue(UIManager ui) {
    UIDialogueBox dialogueBox = ui.getDialogueBox();

    currentStage = IntroStage.STAGE_4_DIALOGUE;

    dialogueBox.showMessageWithAccept(
        "The goblins on this island are becoming aggressive. Hunt 5 of them to prove your combat skills.",
        () -> {
            dialogueBox.showMessageWithAccept(
                "Be careful - they fight back!",
                () -> {
                    // Start the quest
                    currentStage = IntroStage.STAGE_4_IN_PROGRESS;
                    updateQuestIndicator(); // Change to "..."

                    // Track goblin kills (add field to IntroQuestHandler)
                    goblinsKilled = 0;

                    dialogueBox.setVisible(false);
                    System.out.println("[QUEST] Stage 4 started: Kill 5 Goblins");
                },
                () -> dialogueBox.setVisible(false)
            );
        },
        () -> {
            // Declined quest
            dialogueBox.setVisible(false);
        }
    );
}

/**
 * ★ NEW: Check progress during Stage 4
 */
private void checkStage4Progress(UIManager ui) {
    if (goblinsKilled >= 5) {
        // Quest complete!
        currentStage = IntroStage.STAGE_4_COMPLETE;
        updateQuestIndicator(); // Change to "?"
    }
}

```

```

ui.showDialogue(
    "Fionne",
    "You've defeated the goblins! Return to me for your reward."
);
} else {
    ui.showDialogue(
        "Fionne",
        "Goblins slain: " + goblinsKilled + " / 5. Keep hunting!"
    );
}
}

/***
 * ★ NEW: Complete Stage 4 and give rewards
 */
private void showStage4Completion(UIManager ui) {
    UIDialogueBox dialogueBox = ui.getDialogueBox();

    dialogueBox.showMessageWithAccept(
        "Well done! You've proven yourself in combat. Take this as a reward.",
        () -> {
            // Grant rewards
            Entity player = gameState.getPlayer();
            Experience exp = player.getComponent(Experience.class);

            if (exp != null) {
                int levelsGained = exp.addExperience(500);

                if (levelsGained > 0) {
                    Stats stats = player.getComponent(Stats.class);
                    if (stats != null) {
                        stats.applyLevelStats(exp, true);
                    }
                }
            }

            // Add item reward
            ui.addItemToInventory(Items.createHealthPotion());
            ui.notifyInventoryUpdate();

            // Advance to next stage or complete
            currentStage = IntroStage.ALL_COMPLETE;
            updateQuestIndicator(); // Hide indicator
        }
    );
}

```

```
        dialogueBox.setVisible(false);
        System.out.println("[QUEST] Stage 4 complete! All intro quests finished.");
    },
    () -> dialogueBox.setVisible(false)
);
}
```

Step 4: Add Tracking Field

Add to IntroQuestHandler class:

```
java

// ★ NEW: Track Stage 4 progress
private int goblinsKilled = 0;

public void onGoblinKilled() {
    if (currentStage == IntroStage.STAGE_4_IN_PROGRESS) {
        goblinsKilled++;
        System.out.println("Goblin killed! (" + goblinsKilled + " / 5)");

        if (goblinsKilled >= 5) {
            currentStage = IntroStage.STAGE_4_COMPLETE;
            updateQuestIndicator(); // Change to "?"
            System.out.println("Quest complete! Return to Fionne.");
        }
    }
}
```

Step 5: Call from GameLogic

In GameLogic.handleMonsterDeath():

```
java
```

```

private void handleMonsterDeath(Entity monster, Sprite sprite) {
    // ... existing code ...

    // ★ NEW: Notify intro quest handler
    if (monster.getName().equals("Goblin")) {
        IntroQuestHandler introHandler = state.getIntroQuestHandler();
        if (introHandler != null) {
            introHandler.onGoblinKilled();
        }
    }

    // ... rest of existing code ...
}

```

Step 6: Update Indicator Logic

In `updateQuestIndicator()`:

```

java

switch (currentStage) {
    // ... existing cases ...

    case STAGE_3_COMPLETE:
    case STAGE_4_DIALOGUE:
        indicator.show(IndicatorType.AVAILABLE); // "!"
        break;

    case STAGE_4_IN_PROGRESS:
        indicator.show(IndicatorType.IN_PROGRESS); // "..."
        break;

    case STAGE_4_COMPLETE:
        indicator.show(IndicatorType.COMPLETE); // "?"
        break;

    // ... rest of cases ...
}

```

Option B: Add Traditional NPC Quest

Use this for **optional side quests** from any NPC.

Example: Add Quest to New NPC "Merchant"

Step 1: Create NPC in GameState

In `(GameState.initializeWorld())`:

```
java

// Create Merchant NPC
Entity merchant = EntityFactory.createNPC("merchant", "Merchant Bob", 20 * 64, 10 * 64);
entities.add(merchant);
```

Step 2: Add Quest to NPC

In `(EntityFactory.createNPC())` or separately:

```
java

NPC merchantComponent = merchant.getComponent(NPC.class);

Quest fetchQuest = new Quest(
    "fetch_wood",
    "Gather Wood",
    "The merchant needs 10 Carved Wood for repairs.",
    Quest.QuestType.COLLECT
);

fetchQuest.addObjective(new QuestObjective(
    "collect_carved_wood",
    "Collect 10 Carved Wood",
    10
));

fetchQuest.setExpReward(200);
fetchQuest.setGoldReward(100);

merchantComponent.addQuest(fetchQuest);
```

Step 3: Handle Quest Completion

The quest system will automatically:

- Show "!" when quest is available
- Show "..." when quest is in progress
- Show "?" when quest is complete

BUT you need to **restore GameLogic quest indicator management** for non-Fionne NPCs:

```
java

// In GameLogic.update(), add this back ONLY for non-Fionne NPCs:
else if(entityType == EntityType.NPC) {
    NPC npcComponent = entity.getComponent(NPC.class);

    // ★ Skip Fionne - managed by IntroQuestHandler
    if(npcComponent != null && !"fionne".equals(npcComponent.getNpcId())) {
        updateNPC(entity, player, delta);
    }
}
```

Then restore the `updateNPC()` method for other NPCs.

Quick Reference

IntroQuestHandler Methods You Can Call

Method	Purpose
<code>forceSetStage(stage)</code>	Jump to a specific stage (debug)
<code>getCurrentStage()</code>	Get current quest stage
<code>isStageActive(stage)</code>	Check if on specific stage
<code>hasCompletedStage(stage)</code>	Check if past a stage
<code>resetIntroQuests()</code>	Start over (debug)

Where to Hook Quest Events

Event	Location	Method
Monster killed	GameLogic.handleMonsterDeath()	Call introHandler.onMonsterKilled(type)
Item collected	UIManager.addItemToInventory()	Call introHandler.onItemCollected(item)
Feature unlocked	UIManager.unlockMenuButton()	Call introHandler.onFeatureUnlocked(id)
Level reached	GameLogic.awardExperience()	Call introHandler.onLevelReached(level)

Best Practices

1. **Use IntroQuestHandler for:** Tutorial, feature unlocks, linear progression
2. **Use NPC Quest System for:** Side quests, repeatable quests, optional content
3. **Don't mix:** Keep Fionne's quests in IntroQuestHandler only
4. **Always update indicator:** Call updateQuestIndicator() after stage changes
5. **Test with debug keys:** Use N/M keys to test quest flow

Template for New Sequential Quest

java

```

// 1. Add enum
STAGE_X_DIALOGUE,
STAGE_X_IN_PROGRESS,
STAGE_X_COMPLETE,

// 2. Add case to handleFionneInteraction()
case STAGE_X_DIALOGUE:
    showStageXDialogue(ui);
    return true;

// 3. Create methods
private void showStageXDialogue(UIManager ui) {
    // Show quest offer
}

private void completeStageX(UIManager ui) {
    // Grant rewards, advance stage
    currentStage = IntroStage.STAGE_X_COMPLETE;
    updateQuestIndicator();
}

// 4. Add tracking (if needed)
private int stageXProgress = 0;

public void onStageXEvent() {
    if (currentStage == IntroStage.STAGE_X_IN_PROGRESS) {
        stageXProgress++;
        // Check completion
    }
}

// 5. Update indicator switch
case STAGE_X_IN_PROGRESS:
    indicator.show(IndicatorType.IN_PROGRESS);
    break;

```

This gives you a complete framework for expanding quests!