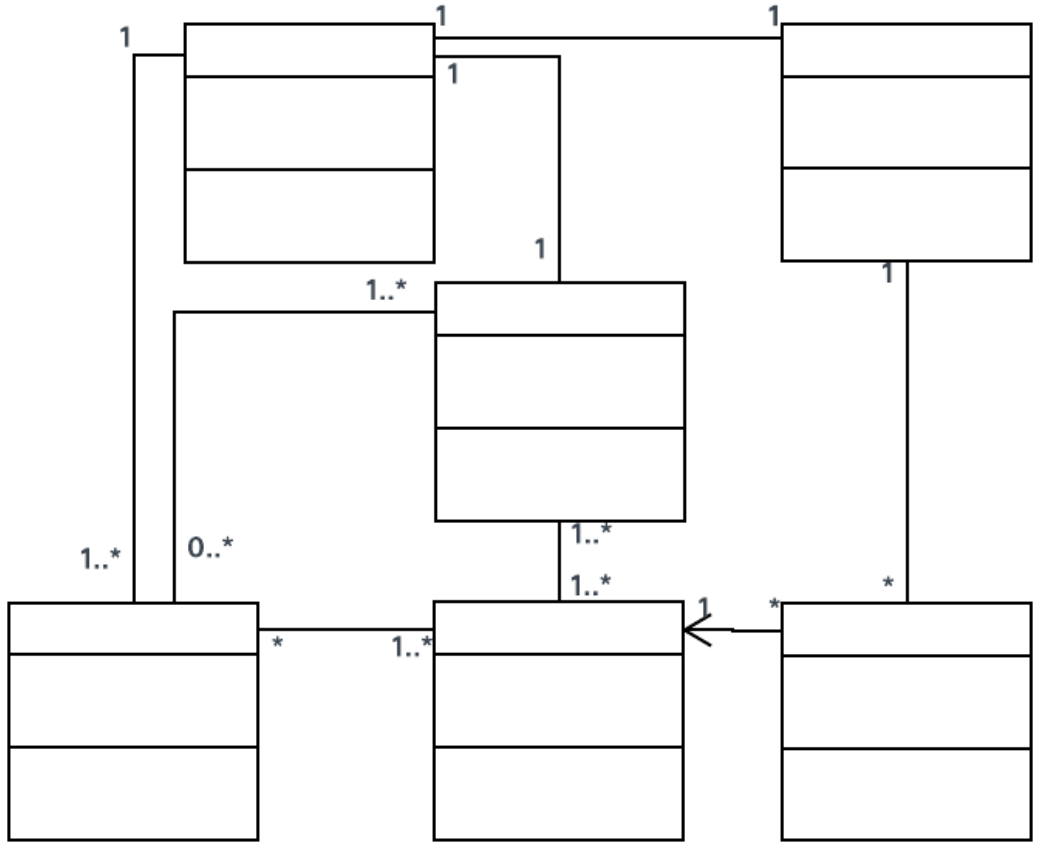
PROJET 2023

État d'avancement

- **Développement du code**

https://www.youtube.com/watch?v=2sSQIS6o-uY

Modélisation



```java
/** Builds an action who builds research centers */
public ShiftCards(ArrayList<Player> players) {
    this.description = "Shift a card between two players";
    this.players = players;
    this.exchangePlayer = null;
    this.cost = 2;
    this.card1 = null;
    this.card2 = null;
}

/** Get the description of the action
 *
 * @return The description of the action
 */
public String getDescription() {
    return this.description;
}

/**
 * Run an action chosen by the player
 *
 * @param player The player who executes the action
 * @return The cost of the action if the action has been successfully made, 0 if the player exit, -1 if the action failed
 */
public int run(Player player, Object o) {
    this.exchangePlayer.discardCard(card2);
    this.exchangePlayer.addCard(card1);
    player.discardCard(card1);
    player.addCard(card2);
    return this.cost;
}

/**
 * Tell if the player can do this action or not
 *
 * @param player The player who plays
 * @return True if the player has the requirements to make this action
 */
public boolean requirements(Player player) {
    boolean res = false;
    java.util.Iterator<Player> it = this.players.iterator();
    while (it.hasNext() && !res) {
        if (it.next().getCards().size() > 0) {
            res = true;
        }
    }
```

```java
public int chooseParameter(Player player, Scanner sc, int actionsLeft) {
    Iterator<Player> it = this.players.iterator();
    String res = "Choose a player to exchange your cards with : \n";
    int i = 1;
    while (it.hasNext()) {
        Player p = it.next();
        res += i + " -> " + p.getName();
        if (it.hasNext()) {
            res += " / ";
        }
        i++;
    }
    System.out.println(res);

    int n = -1;
    String act;
    while (n == -1) {
        act = sc.next();
        try {
            n = Integer.parseInt(act);
            if (n < 1 || n > this.players.size()) {
                n = -1;
                System.out.println("Enter an integer between 1 and " + this.players.size());
            }
        } catch (NumberFormatException e) {
            System.out.println("Not an integer, retry");
        }
    }
    n--;
    this.exchangePlayer = this.players.get(n);
    System.out.println("You chose to exchange a card with the player " + this.exchangePlayer.getName() + "\n\n");

    res = "";
    Iterator<Card> itC = this.exchangePlayer.getCards().iterator();
    while (itC.hasNext()) {
        Card c = itC.next();
        res += i + " -> " + c.getTownName() + " : " + c.getDiseaseName();
        if (itC.hasNext()) {
            res += " / ";
        }
        i++;
    }
    System.out.println(res);

    n = -1;
```

Les extensions

Les Difficultés

Bilan de Projet