Notches

The incredibly frustrating text based game

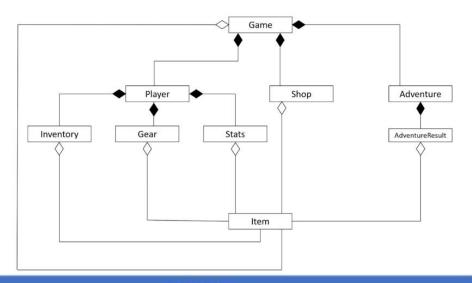
Dylan Ahearn, Nick Smith, Leah Rogers

Demo (2-3 minutes)

https://github.com/dyah7099/Notches/blob/master/12 Notches demo.mp4

Class Diagram

- Plan increase starting time
- Easier to code
 - Filling in missing method
- Kept us Object Oriented
- Understand relationshi

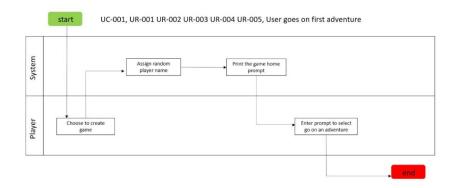


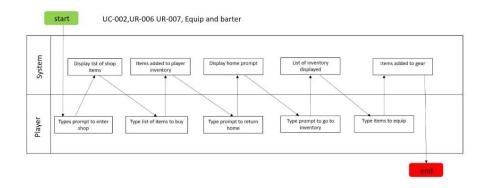
Player

- name: string
- inventory: Inventory
- gear: Gear
- stats: Stats
- + updatePlayer(items: item[], price : int): void
- + updatePlayer(coins: int, experience: int, loot: Item[]): void
- + updatePlayer(items: Item[]): void

Activity diagrams

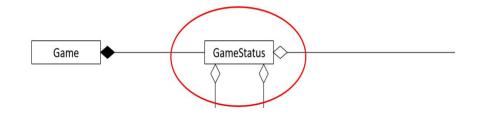
- Useful for testing
- Missing functionality
- Starting point





State Design Pattern

- New class "GameStatus"
- Outer/Wrapper class "Game" doesn't directly access other game components
- Designation of responsibilities shift from component classes to "GameStatus" class



Object Oriented

- Implemented functionality without inheritance
- Utilized Composition and Aggregation
 - Aggregation for Player, Shop to GameStatus
 - Composition for Inventory,
 Gear, Stats to Player
 - Composition for Item to Shop, Inventory, Gear

```
public class Inventory {
     private ArrayList<Item> items = new ArrayList<Item>();
     //removing when adding to gear
public class Player {
   private String name;
   private Inventory inventory;
   private Gear gear;
   private Stats stats:
   public final String[] names = {"Joffrey", "Tyrion", "Cersei", "Sansa", "Eddard"};
import java.util.ArrayList;
public class Shop {
     private ArrayList<Item> items = new ArrayList<Item>();
```

