Aaron Asibbey

Roman Di Domizio

Mountain Hike Planner: UML Diagram

MainApplication	start(Stage primaryStage)

Trail	+ name + distance + elevationGain + estimatedTime + location + experienceLevel	+ Getters and Setters G

GearChecklist	+ items (List of GearItem) + observers (List of GearChecklistObserver)	+ addItem(GearItem item) + removeItem(GearItem item) + notifyObservers() + addObserver(GearChecklistObserver observer)

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GearItem	+ name + category	+ getName() + getCategory() + toString()

GearItemFactory	+ createGearItem(String type)

BasicGearStrategy	+ recommendGear()

AdvancedGearStrategy	+ recommendGear()

ExpertGearStrategy	+ recommendGear()

GearStrategy	+ recommendGear()

TrailSelectionController	+ listViewTrails + textAreaDetail + listViewGearChecklist + gearTypeComboBox	+ initialize() + handleAddItem() + handleRemoveItem() + update()

GearChecklistObserver	+ update()

TrailDataManager	+ instance + objectMapper