## **Overall UML** Package::commands <<interface>> Lab 6 Activity 4 CommandInterface + execute(): void À Package::lifeform Package::lifeform <<abstract>> <<enumeration>> Direction LifeForm Package::commands <<abstract>> NORTH - direction : Direction Command EAST speed : int SOUTH gb: GameBoard WEST Package::weapon <abstract>> + rotate(Direction) : void Weapon + decrementSpeed(): void + execute(): void + getCurrentSpeed(): int + getMaxSpeed(): int + setLocation(int,int):void resetSpeed(): void Package::commands Package::commands ReloadCommand **AttackCommand** + <<create>> AttackCommand(GameBoard) + <<create>> ReloadCommand(GameBoard) + execute(): void + execute(): void Package::environment Cell Package::commands Package::commands - newLifeForm : LifeForm PickUpCommand DropCommand - weaponCount : int - weapon1 : Weapon + <<create>> PickUpCommand(GameBoard) + <<create>> DropCommand(GameBoard) - weapon2 : Weapon + execute(): void + execute(): void Package::commands + getLifeForm() : LifeForm + addLifeForm(LifeForm) : boolean + removeLifeForm() : void Package::commands MoveCommand RoundUpdateCommand + <<create>> MoveCommand(LifeForm) + getWeapon1() : Weapon + getWeapon2() : Weapon + <<create>> RoundUpdateCommand(GameBoard) + execute(): void + execute(): void + addWeapon(Weapon) : boolean + removeWeapon(Weapon) : Weapon Package::commands MoveOneSpaceCommand + <<create>> MoveCommand(LifeForm) Package::commands + execute() : void <<abstract>> **RotateCommand** Package::environment - direction : Direction **Environment** <<static>> e : Environment + execute() : void gridOfCells : Cell[] - rows : int - cols : int <<create>> Environment(int, int) Package::commands RotateNorthCommand Package::commands + getInstance(int, int) : Environment **RotateSouthCommand** + getLifeForm(int, int) : LifeForm + addLifeForm(LifeForm, int, int) : boolean + <<create>> RotateNorthCommand(LifeForm) + <<create>> RotateSouthCommand(LifeForm) + removeLifeForm(int, int) : void + moveLifeForm(LifeForm): int[] Package::commands + addWeapon(Weapon, int, int): boolean Package::commands + removeWeapon(Weapon, int, int): Weapon RotateEastCommand RotateWestCommand + swapWeapon(): void + findNearestEnemy(LifeForm); LifeForm + <<create>> RotateEastCommand(LifeForm) + <<create>> RotateWestCommand(LifeForm) + attackNearestEnemy(LifeForm): void + getWeapons(int, int) : Weapon[] Package::ui GameBoard package::ui Remote - environment : Environment - Row: int e : Environment - Col : int gb : GameBoard - selectRow: int commands : Command[] - selectCol: int + <<static> main(String[]) : void + <<create> Gameboard() + <<create>> Remote(GameBoard) + update() : void + buttonPressed(int): void + update(int, int) : void + getRow(): int + getCol(): int + getSRow() : int + getSCol(): int + getEnvironment() : Environment