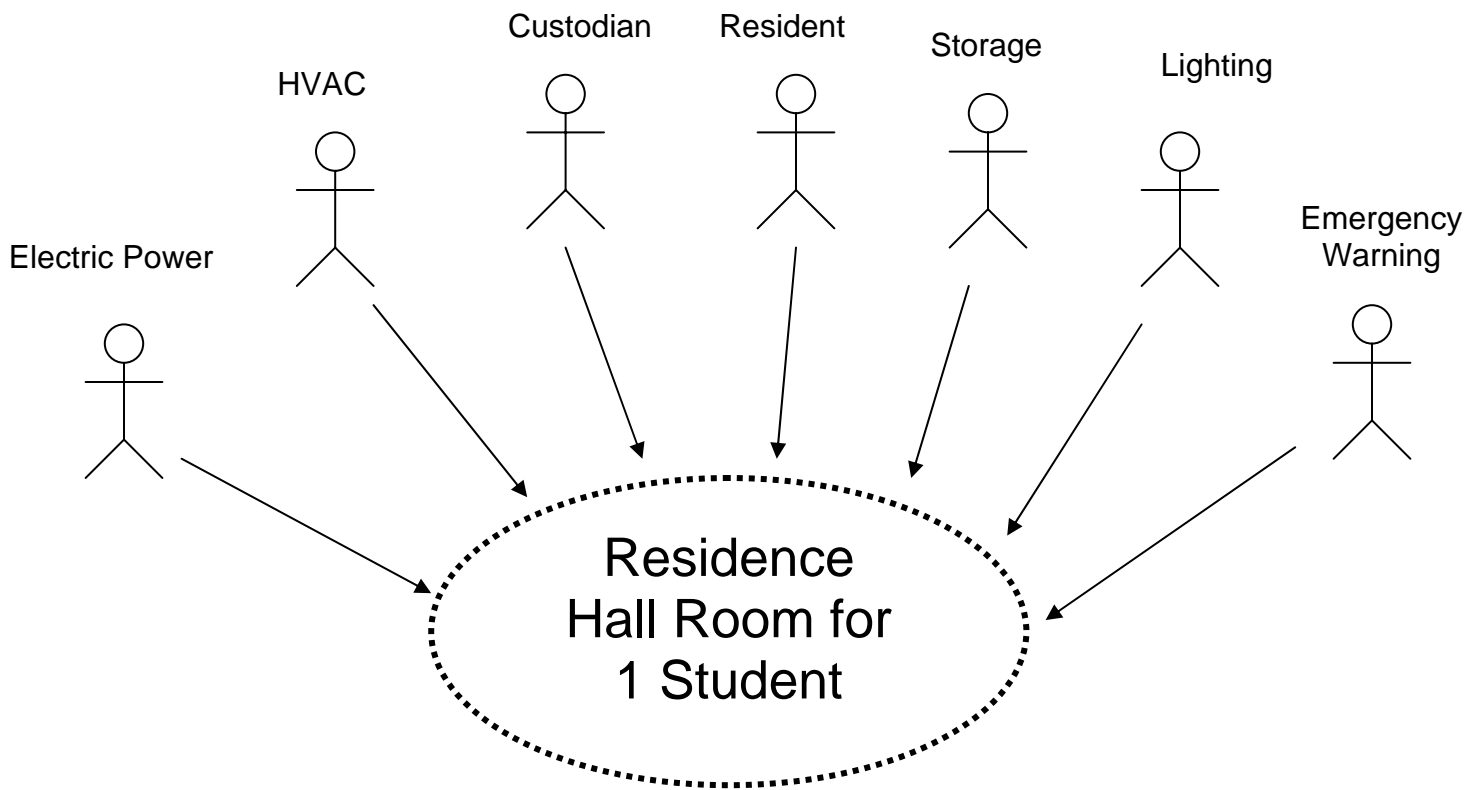


High Level Requirements



FUNCTIONS

Electric Power – 110 VAC, GFI protection

HVAC – Adjustable temperature, thermostatic controlled, fresh air

Custodian – Access for cleaning equipment

Resident – Study, sleep, TV viewing, music listening, visitors

Storage – Clothes, books, stuff

Lighting – Study, ambience, natural

Emergency warning – Smoke and CO detectors, audible & visual alarm,

STATES

Study – Temperature 70 F, no TV, focused study lighting, computer network.

Sleep – Temperature 60 F, no light, phone (ringer off/voicemail on)

Visitors – Temperature 70 F, TV, music, lights, refreshments

Cleaning – Temperature 65 F, lights, electric power for machines

Annual maintenance – Removable furniture, washable floor, walls, removable windows

Disaster alarm – High level audio alarm, flashing lights, emergency lighting

PDS

Electric Power

- 110 VAC, 40 A
- GFI protection,
- Number and location of outlets will satisfy all applicable local and national electric codes

HVAC

- Temperature range 50 – 80 F
- Temperature accuracy ± 2 F
- User adjusted, thermostatic controlled
- Air exchange (>2 /hour) or to meet all applicable and local HVAC codes
- Filter of 100 micron particles

Custodian

- Access for cleaning equipment (30" door width)
- Power outlet for cleaning equipment (10 A)

Resident

- Study – Desk, computer carrel, & ergonomic adjustable chair
- Sleep – Standard, twin-sized bed
- Music listening – Shelves/rack (>6 ft³) for electronics & speakers
- Visitors – Space (3 ft²) for each guests (up to 6)

Storage

- Clothes (10 ft³)
- Books (6 ft³)
- Miscellaneous stuff (20 ft³)

Lighting

- Study lighting (localized 40 lumens/ft² over 8 ft² desktop)
- Ambient (15 lumens/ft²) throughout room
- Natural – Window area >5 ft²
- Shall conform to all applicable local and national standards.

Emergency warning

- Smoke and CO detectors
- Audible (>90 dB) alarm
- Visual (50 lumens/ft², flashing) alarm
- Shall conform to all applicable local and national codes