



Cloud Surf Inn: Individual Contribution

Submitted To: Software Engineering

Submitted On: 04/02/2021

Submitted By: Group 8

Website: <https://sites.google.com/view/cloud-surf-inn/home?authuser=0>

Github: <https://github.com/Software-Engineering-Team-8/Cloud-Surf-Inn>

Group Members: Chynna Walsh, Sidonia Mohan, Ryder Morrell, JP Dangler, Juan Escudero, Zach LeMunyon, Chris Kline, Bharath Selvaraj, Jakub Vogel, Sebastian Matiz

All group members were present for demo Q&A.

Contribution Percentages:

Ryder, Chynna, Jakub - 14%

Chris, JP, Juan, Sebastian - 10%

Bharath, Sidonia - 8%

Zach - 2%

Contribution Breakdown

1. Team A

a. Juan

- i. Subsystems Tasks: Developer and coder of classes in housekeeping package. Integrated the housekeeping package with the GUI. Aided in creating GUIs for housekeeping subsystems, program documentation.

b. Ryder

- i. Overall Project Tasks: Developed, created and integrated user interface, principal designer and creator of GUIs.
- ii. Subsystems Tasks: Integrated the housekeeping package with the GUI. Tested housekeeping subsystem.

c. Zach

- i. Designed the test case for the housekeeping subsystem.

2. Team B

a. Sidonia

- i. Subsystems Tasks: Developed mobile key subsystem, coded back end use cases such as check in, designed test case for mobile key.

b. Bharath

- i. Subsystem Tasks: Coded and designed generateKey, generateMasterKey, tested subsystem mobile key and room matcher.

3. Team C

a. Jakub

- i. Subsystem Tasks: Developed automatic power control subsystem, program documentation.
- ii. Overall Project Tasks: Ensured consistency between subsystems, produced demo, created demo presentation, guided demo content.

b. Sebastian

- i. Subsystem Tasks: Coded automatic power subsystem, integrated subsystem to GUI, tested subsystem. Implemented hardware Raspberry Pi, DHT temperature sensor, and designed communication protocol between hardware and software.

c. Chynna

- i. Subsystem Tasks: Aided in integrating power control subsystem and aided in testing power control subsystem, designed test case for automatic power.

- ii. Overall Project Tasks: Main POC between subsystems, project management, program documentation, brochure for the demo, edited demo.

4. Team D

a. Jp

- i. Subsystem Tasks: Developed and coded room matcher subsystem, aided in integrating room matcher to overall system, designed test case for roommatcher test case, testing of algorithms, program documentation.
- ii. Overall Project Tasks: Troubleshooter of database.

b. Chris

- i. Subsystem Tasks: Designed room matcher algorithm, integrated room matcher algorithm with GUI and database, coding and development of algorithms.
- ii. Overall Project Tasks: Created SQLite database, integrated database to user interface, principal integrator of database with overall system.