Andrea Abellera Dr. Sara Rouhani #7835644 COMP4300 A01

## **Unit Tests**

Wagon class unit tests are included on test.js.

To run the test suite on terminal,

```
`node test.js`
```

```
#1: Test wagon creation
#2: Test filling up to capacity
#3: Test restricting new entrants on full wagons
#4: Test removing existing riders from wagon
#5: Test removing non-existing riders from wagon
#6: Test redacted wagons has spot for new rider
#7: Test add message for each existing rider
All Tests finished!
Total passed: 7
```

# **System Tests**

System tests are not automated, but server and client logs are included to report state, behavior, and errors. Sample procedures are provided to recreate these states.

## **Connect success**

On client terminal,

`node chatclient.js localhost 8080 Mallard`

```
[CONNECTION] Rider Mallard connected to the server from 127.0.0.1:38650.
```

#### Connect fail

On client terminal, enter the wrong hostname or port

```
`node chatclient.js localhost <mark>8081</mark> Mallard`
```

```
Error connecting to Server on host: localhost port: 8081
Error: connect ECONNREFUSED 127.0.0.1:8081
    at TCPConnectWrap.afterConnect [as oncomplete] (node:net:1187:16) {
    errno: -111,
    code: 'ECONNREFUSED',
    syscall: 'connect',
    address: '127.0.0.1',
    port: 8081
}
```

#### **Create success**

On client Lobby,

>> create myNewRoom

[CREATE] Wagon myNewRoom is created.

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## **Create reject**

```
On client Lobby,
>> create unique
>> create unique
```

```
>> create unique
Create failed. Wagon name already exists.
```

## Join success

On client Lobby,
>> join myNewRoom

```
[JOIN] Rider Mallard (127.0.0.1:38654) hopped on myNewRoom.
```

#### Join fail

On client Lobby, >> join thisRoomDNE

```
>> join thisRoomDNE
```

```
Join failed. Wagon does not exist.
```

## Force exit Wagon cleanup

On client Lobby,

>> join myNewRoom

On myNewRoom Wagon, type this keyboard combination to force quit Ctrl + C

```
[LEAVE] Rider Mallard (127.0.0.1:38654) is removed from myNewRoom. [CONNECTION] Rider Mallard (127.0.0.1:38654) is disconnected from server.
```

## **Proper exit disconnect**

On client Lobby,

>> exit

[CONNECTION] Rider Mallard (127.0.0.1:38654) is disconnected from server.