

Assignment 3 - MyAPIs

ECE 4564

November 1, 2018

Contents

1	Rubric	2
2	Guideline	3
2.1	Required Files	3
2.2	Data Format	3
2.2.1	User Entity	3
2.2.2	Book Entity	3
2.3	API documentation	3
2.4	Cmd Parameters	3
3	Run template bash file	3
3.1	LED Manipulation	3
3.1.1	Storage Server Testing	3
3.2	Service Server	3
3.2.1	Add user	3
3.2.2	Upload file	4

1 Rubric

- 5 pts - No hard coded IP addr
- 5 pts - Encapsulation (AuthDB, StorageDB, LED_PWM)
- 20 pts - Zeroconf
 - 10 pts - Service Announcement/Registration
 - 10 pts - Service Browser
- 25 pts - Service Server
 - 10 pts - HTTP Basic Authentication
 - 5 pts - Auth data maintained in MongoDB database
 - 10 pts - Service APIs
- 20 pts - Storage Server
 - 15 pts - Storage APIs
 - 5 pts - Book data maintained in MongoDB database
- 25 pts - LED Server
 - 15 pts - LED APIs
 - 10 pts - LED Manipulation

2 Guideline

2.1 Required Files

- StorageDB.py
- led.py
- storage.py
- service.py
- AuthDB.py
- LED_PWM.py

2.2 Data Format

2.2.1 User Entity

```
{  
    'username': <USERNAME>,  
    'password': <PASSWORD>  
}
```

2.2.2 Book Entity

Same as assignment 2

2.3 API documentation

See api_documentation.txt

2.4 Cmd Parameters

- service.py
python3 service.py
- storage.py
python3 storage.py
- led.py
python3 led.py

3 Run template bash file

3.1 LED Manipulation

bash control_led.sh <LED server IP>

3.1.1 Storage Server Testing

bash storage_test.sh <Storage server IP>

3.2 Service Server

3.2.1 Add user

bash add_user.sh <Service Server IP>

3.2.2 Upload file

run add_user first

bash upload-led.sh <Uploaded filename> <Service Server IP>

bash upload-storage.sh <Uploaded filename> <Service Server IP>