



Engineering Academy

API Specification for Networking FP Capstone Project
Fault Management Dashboard

1 User Stories:

1.1 Admin Module

1.1.1 US01: Login

- API: <http://localhost:8765/login>
- Http method: POST
- Example body of request:

```
{  
  "username": "operator1",  
  "password": "7"  
}
```

1.1.2 US02: Home Page - Admin

1.1.3 US03: Display all the users

- API: <http://localhost:8765/users>
- Http method: GET

1.1.4 US04: Add users to the system

- API: <http://localhost:8765/users>
- Http method: POST
- Example body of request:

```
{  
  "role": "admin",  
  "username": "admin1",  
  "password": "admin1",  
  "status": "Activated",  
  "security_question": "What is your favorite sport?",  
  "security_answer": "Kabadi"  
}
```

1.1.5 US05: Change user role in the system

- API: <http://localhost:8765/users/{id}>
- Http method: PUT
- Example body of request:

```
{  
  "role": "admin"  
}
```

1.1.6 US06: Delete users to the system

- API: `http://localhost:8765/users/{id}`
- Http method: PUT
- Example body of request:

```
{  
  "status": "Deactivated"  
}
```

1.1.7 US07: Report

- API: `http://localhost:8765/faults`
- Http method: GET

1.1.8 US08: Logout

1.1.9 US09: Change Password

- API: `http://localhost:8765/users/{id}`
- Http method: PUT
- Example body of request:

```
{  
  "username": "operator1",  
  "password": "operator1",  
}
```

1.2 OPERATOR Module

1.2.1 US10: Home Page – Operator

1.2.2 US11: Device Configuration

- API: `http://localhost:8765/devices`
- Http method: GET

1.2.3 US12: Add device to monitor

- API: `http://localhost:8765/devices`
- Http method: POST
- Example body of request:

```
{  
  "device_serial": "SW101",  
  "device_ip": "129.2.2.3",  
  "device_type": "SWITCH",  
}
```

```
    "device_status": "Activated",  
    "username": "operator1"  
}
```

1.2.4 US13: Edit device

- API: <http://localhost:8765/devices/{id}>
- Http method: PUT
- Example body of request:

```
{  
    "device_serial": "SW10100",  
    "device_ip": "129.2.2.8"  
}
```

1.2.5 US14: Deactivate device monitoring

- API: <http://localhost:8765/devices/{id}>
- Http method: PUT
- Example body of request:

```
{  
    "device_status": "Deactivated",  
}
```

1.3 *Manager Module*

1.3.1 US15: Home Page – Manager

1.3.2 US16: Fault Handling

1.3.3 US17: Fault Acknowledgement.

- API: <http://localhost:8765/faults/{id}>
- Http method: PUT
- Example body of request:

```
{  
    "status": "Acknowledged"  
}
```

1.3.4 US18: Fault Clearance.

- API: <http://localhost:8765/faults/{id}>
- Http method: PUT
- Example body of request:

```
{  
  "status": "Cleared"  
}
```

1.3.5 US19: Fault Termination.

- API: <http://localhost:8765/faults/{id}>
- Http method: PUT
- Example body of request:

```
{  
  "status": "Cleared"  
}
```

1.4 *Extra Functionalities*

1.4.1 US20: Forgot Password

- API: <http://localhost:8765/users/{id}>
- Http method: PUT
- Example body of request:

```
{  
  "username": "operator1",  
  "password": "operator1",  
}
```