# Coding Assignment: Financial Assistance Scheme Management System (FASMS)

A collection of requests to intereract with the Django Backend created for the FASMS.

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POST Admin Login		
http://localhost:5000/api/admin/login/		
Login using the username and password of the admin user to receive a token for authentication purposes.		
Body formdata		
username	admin	

## **POST** Admin Logout

http://localhost:5000/api/admin/logout/

Send a POST request with the token as the header, backend deletes the token from the database to end current session.

#### **HEADERS**

password

**Authorization** 

Token c3bafda2f2b6a4eaa541090dab9b7a053d77c849

# **GET** List Applicants

http://localhost:5000/api/applicants

Sends a GET request to list all applicants within the database, alongside with their details.

#### **HEADERS**

## **POST** Create Applicant

http://localhost:5000/api/applicants/

Create an applicant in the database, with the JSON format of the request containing the NRIC, name, sex, date\_of\_birth, marital\_status, retrenchment\_status, retrenchment\_date, address, contact\_info, current\_education, monthly\_income, completed\_national\_service, and household\_members, which includes the above fields alongside the relationship\_to\_applicant field.

#### **HEADERS**

#### **Authorization**

```
json
 "nric": "S992243I",
 "name": "Jenny Bull",
 "sex": "Female",
 "date_of_birth": "1920-01-01",
 "marital_status": "Married",
 "employment status": "Unemployed",
 "retrenchment_date": null,
 "address": {
   "postal_code": "111222",
   "unit number": "1",
   "address_line_1": "1 Main Rd",
   "address_line_2": ""
 },
 "contact_info": "81100499",
 "current_education": "not in education",
 "monthly_income": 500,
 "completed_national_service": false,
 "household_members": [
     "nric": "T9112113I",
     "name": "Sally Bull",
     "sex": "Female",
     "date_of_birth": "2023-05-15",
     "marital_status": "Single",
     "employment_status": "Unemployed",
     "address": {
```

```
"postal_code": "111222",
    "unit_number": "1",
    "address_line_1": "1 Main Rd",

    "address_line_2": ""
    },
    "contact_info": "23011119",
    "relationship_to_applicant": "Child",
    "current_education": "pre-primary",
    "monthly_income": 0,
    "completed_national_service": false
}
```

## **PATCH** Update Applicant

http://localhost:5000/api/applicants/ec03f428-640c-470b-96bb-c7fcbfb6599b/

Updates fields of the Applicant, which modifies the people table as well.

#### **HEADERS**

#### **Authorization**

```
json
 "nric": "S122243I",
 "name": "Jolly Bull",
 "sex": "Female",
 "date_of_birth": "1930-01-01",
 "marital_status": "Married",
 "employment_status": "Unemployed",
 "retrenchment_date": null,
 "address": {
   "postal_code": "211222",
   "unit_number": "1",
   "address_line_1": "1 Main Rd",
   "address_line_2": ""
 },
 "contact_info": "81111499",
 "current_education": "not in education",
 "monthly_income": 500,
 "completed_national_service": false,
 "household_members": [
     "nric": "T9111113I",
     "name": "Sally Bull",
```

```
"sex": "Female",
      "date_of_birth": "2023-05-15",
      "marital_status": "Single",
      "employment_status": "Unemployed",
      "address": {
        "postal_code": "211222",
        "unit_number": "1",
        "address_line_1": "1 Main Rd",
        "address_line_2": ""
      },
      "contact_info": "23311119",
      "relationship_to_applicant": "Child",
      "current_education": "pre-primary",
      "monthly_income": 0,
      "completed_national_service": false
   3
  ٦
}
```

## **DELETE** Delete Applicant

http://localhost:5000/api/applicants/37af9d63-fecb-4746-87d8-ff2b3df63524/

Removes the specified applicant from the applicant table, NOT the people table.

#### **HEADERS**

**Authorization** 

## **GET** List Schemes

http://localhost:5000/api/schemes/

List all schemes in the database.

## **HEADERS**

**Authorization** 

#### **POST** Create Scheme

Create a new scheme with the fields scheme\_name, description, eligibility\_criteria and benefits. The eligibility\_criteria includes criterion\_type, which should match a criterion type in the backend, and criterion\_value, which is compared to

the value of the applicant. The additional\_conditions field is not currently used, but should the criterion be more complex (>= sign etc), the field could be utilised for more precise control over the specific criterion.

#### **HEADERS**

#### **Authorization**

## Body raw (json)

```
json
   "scheme_name": "Edusave Account",
   "description": "Provides $230 to $290 annually for approved fees and programmes for students."
   "eligibility_criteria": [
       "criterion_type": "household_member_education",
       "criterion value": "primary",
       "additional_conditions": ""
     },
     Ę
       "criterion_type": "household_member_age",
       "criterion value": ">7",
       "additional_conditions": ""
     },
       "criterion_type": "household_member_age",
       "criterion value": "<16",
       "additional_conditions": ""
     3
   ],
   "benefits": [
       "benefit_type": "Financial Assistance",
       "description": "$230 annually for primary students",
       "conditions": ""
     },
       "benefit_type": "Financial Assistance",
       "description": "$290 annually for secondary students",
       "conditions": ""
     3
   ]
 7
```

## **GET** Eligible Schemes (for applicant)

List the eligible schemes for a specific applicant, based on the schemes that he or she qualifies for.

#### **HEADERS**

**Authorization** 

#### **PARAMS**

applicant

be92c248-31ca-4c23-9145-93be998144fd

# **GET** List Applications

http://localhost:5000/api/applications/

List all applications present in the system.

#### **HEADERS**

#### **Authorization**

# **PATCH** Update Application

http://localhost:5000/api/applications/31dd7abf-bc0b-4683-9fe9-a52c0ebd478f/

Update a specific application's parameters, such as the status of the application.

#### **HEADERS**

### **Authorization**

```
"remarks": "single scheme applied",

"schemes": [1]
}
```

# **GET** List Applications (for applicant)

http://localhost:5000/api/applications/applicant/be92c248-31ca-4c23-9145-93be998144fd/

List all the applications that an applicant has.

## **HEADERS**

**Authorization** 

# **POST** Create Applications

http://localhost:5000/api/applications/

Create a new application using the fields applicant\_id, application\_status, remarks and schemes.

#### **HEADERS**

**Authorization** 

```
json

{
    "applicant_id": "be92c248-31ca-4c23-9145-93be998144fd",
    "application_status": "Pending",
    "remarks": "multiple schemes applied",
    "schemes": [1, 3]
}
```