

Milestone 5 API Contract Summary

API Contract - Milestone 5

GET /pets

Description: Retrieve a list of all available pets.

Input: None

Output:

```
{
  "pets": [
    {"id": 1, "name": "Buddy", "type": "Dog", "age": 3},
    {"id": 2, "name": "Mittens", "type": "Cat", "age": 2},
    {"id": 3, "name": "Nibbles", "type": "Rabbit", "age": 1}
  ]
}
```

Status Codes: 200 OK

POST /users/register

Description: Register a new user.

Input:

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

Output:

```
{
  "message": "User <username> registered successfully!"
}
```

Error Response:

```
{
  "error": "Username and password required"
}
```

Status Codes: 201 Created, 400 Bad Request

Implementation Notes

- API split into logical files using Flask Blueprints (main.py, user.py, pets.py)
- Stubs used to return mock pet data and simulate user registration success/failure
- GET and POST routes handled cleanly via blueprints

GitHub Actions CI/CD

- CI pipeline defined in .github/workflows/ci.yml
- Triggers on push to main and develop
- Runs pylint and pytest in ./backend folder only
- Ensures test coverage and lint compliance for backend code