BMI Calculator Microservice Project

Project Links

- GitHub Repository: https://github.com/pravatn01/ 12factor bmi microservice
- Demo Video: https://www.youtube.com/watch?v=TaVX[hU9zj8

What This Project Does

The BMI Calculator Microservice is a modern web application that:

- Calculates BMI (Body Mass Index) in real-time
- Stores calculation history in MySQL database
- Provides a beautiful Streamlit frontend
- Implements a RESTful API using FastAPI
- Follows 12-Factor methodology for cloud-native applications

Detailed Documentation

For comprehensive documentation about this project, please refer to the main README.md in the GitHub repository:

https://github.com/pravatn01/ 12factor bmi microservice/blob/main/README.md

It includes:

- Detailed project architecture
- Complete setup instructions
- 12-Factor methodology implementation details
- API endpoints documentation
- Database schema
- Testing procedures
- Security considerations
- Screenshots and usage examples

The documentation covers everything you need to know about:

- Setting up the development environment
- Running the application locally
- Database configuration
- Available API endpoints
- Frontend features
- Testing procedures
- And much more!

Test Results

Below is the evidence of test suite passing test cases for the backend API:



The test suite covers:

- API endpoint functionality
- Data validation
- Database operations
- Error handling

The test is implemented using pytest.