

Example



```
from fastapi import FastAPI
from pydantic import BaseModel

app = FastAPI()

# Pydantic model to define the request body structure
class Item(BaseModel):
    name: str
    description: str

# POST endpoint to create an item
@app.post("/items/")
def create_item(item: Item):
    return {"message": "Item created successfully", "item": item}

# GET endpoint to retrieve all items
@app.get("/items/")
def get_items():
    return {"items": ["item1", "item2", "item3"]}

# GET endpoint for a specific item by ID
@app.get("/items/{item_id}")
def get_item(item_id: int):
    return {"item_id": item_id, "name": f"Item {item_id}"}
```

POST Endpoint with Input Validation

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from fastapi import FastAPI, HTTPException
from pydantic import BaseModel, Field

app = FastAPI()

class User(BaseModel):
    username: str = Field(..., min_length=3)
    email: str

@app.post("/users/")
def create_user(user: User):
    if "@" not in user.email:
        raise HTTPException(status_code=400, detail="Invalid email
address")
    return {"message": "User created successfully", "user": user}
```