1.creating directory and listing files

CODE:

```python
from fastapi import FastAPI, HTTPException
from pydantic import BaseModel
import os

app = FastAPI()


class DirectoryRequest(BaseModel):
    root_path: str
    directory_name: str


class ListFilesRequest(BaseModel):
    path: str


@app.post("/create-directory")
async def create_directory(request: DirectoryRequest):
    path = os.path.join(request.root_path, request.directory_name)

    try:
        os.makedirs(path, exist_ok=True)
        return {"message": "Directory created successfully", "path": path}
    except Exception as e:
        raise HTTPException(status_code=500, detail=str(e))


@app.post("/list-files")
async def list_files(request: ListFilesRequest):
    path = request.path

    if not os.path.exists(path):
        raise HTTPException(status_code=404, detail="Directory does not
exist")

    if not os.path.isdir(path):
        raise HTTPException(status_code=400, detail="Path is not a
directory")

    try:
        files = os.listdir(path)
        return {"files": files}
    except Exception as e:
        raise HTTPException(status_code=500, detail=str(e))


# To run the server, use the command: uvicorn main:app --reload


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if __name__ == '__main__':
    import uvicorn
    uvicorn.run(app, host='127.0.0.1', port=8000)
```

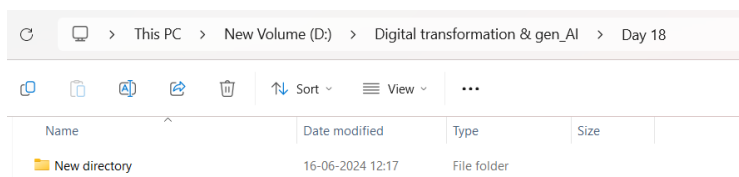responses

POST `/create-directory` Create Directory

Parameters

No parameters

Request body required

```
{
    "root_path": "D:\\Digital transformation & gen_AI\\Day 18",
    "directory_name": "New directory"
}
```

This PC > New Volume (D:) > Digital transformation & gen_AI > Day 18

Sort   View   ...

Name	Date modified	Type	Size
New directory	16-06-2024 12:17	File folder	

LISTING:

```
{
    "path": "D:\\Digital transformation & gen_AI\\Day 16"
}
```

Execute

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/list-files' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "path": "D:\\Digital transformation & gen_AI\\Day 16"
}'
```

Request URL

```
http://127.0.0.1:8000/list-files
```

Server response

Code	Details

200   Response body

```
{
    "files": [
        "day16.docx",
        "day16.pbix",
        "tasks_on_16_modified.pbix"
    ]
}
```