**QUESTION:**

Display the list of files and folders with its type in console. The Folder path will be passed has a parameter in command.

**ANSWER:**

File structure:

[

{

"main\_folder": "Document",

"sub\_folder": [

{

"name": "Notes",

"files": [

{

"name": "Html-notes",

"type": "docx"

},

{

"name": "css-notes",

"type": "docx"

},

{

"name": "js-notes",

"type": "docx"

},

]

},

{

"name": "Assignment",

"sub-folder": [

{

"name": "Day-3",

"files": [

{

"name": "blog",

"type": "text"

},

]

},

{

"name": "Day4",

"files": [

{

"name": "index",

"type": "html"

},

{

"name": "style",

"type": "css"

},

]

}

],

"files": [

{

"name": "question",

"type": "text"

},

{

"name": "script",

"type": "js"

}

]

}

]

},

{

"main\_folder": "Downloads",

"sub\_folder": [

{

"name": "Notes",

"files": [

{

"name": "Movie1",

"type": "mp4"

},

{

"name": "image1",

"type": "png"

},

{

"name": "image2",

"type": "png"

},

]

}

],

},

{

"main\_folder": "Picture",

"sub\_folder": [

{

"name": "Personal",

"files": [

{

"name": "videoprofile",

"type": "mp4"

},

{

"name": "profilepic1",

"type": "png"

},

{

"name": "signature-scan",

"type": "png"

},

]

}

],

},

]

**Example : Downloads folder**

db.collection.aggregate([

{

"$unwind": "$sub\_folder"

},

{

"$unwind": "$sub\_folder.files"

},

{

"$match": {

main\_folder: "Downloads"

}

}

])

**OUTPUT 1:**

[

{

"\_id": ObjectId("5a934e000102030405000001"),

"main\_folder": "Downloads",

"sub\_folder": {

"files": {

"name": "Movie1",

"type": "mp4"

},

"name": "Notes"

}

},

{

"\_id": ObjectId("5a934e000102030405000001"),

"main\_folder": "Downloads",

"sub\_folder": {

"files": {

"name": "image1",

"type": "png"

},

"name": "Notes"

}

},

{

"\_id": ObjectId("5a934e000102030405000001"),

"main\_folder": "Downloads",

"sub\_folder": {

"files": {

"name": "image2",

"type": "png"

},

"name": "Notes"

}

}

]

**Example : Document folder**

db.collection.aggregate([

{

"$unwind": "$sub\_folder"

},

{

"$unwind": "$sub\_folder.files"

},

{

"$match": {

main\_folder: "Document"

}

}

])

**OUTPUT 2:**

[

{

"\_id": ObjectId("5a934e000102030405000000"),

"main\_folder": "Document",

"sub\_folder": {

"files": {

"name": "Html-notes",

"type": "docx"

},

"name": "Notes"

}

},

{

"\_id": ObjectId("5a934e000102030405000000"),

"main\_folder": "Document",

"sub\_folder": {

"files": {

"name": "css-notes",

"type": "docx"

},

"name": "Notes"

}

},

{

"\_id": ObjectId("5a934e000102030405000000"),

"main\_folder": "Document",

"sub\_folder": {

"files": {

"name": "js-notes",

"type": "docx"

},

"name": "Notes"

}

},

{

"\_id": ObjectId("5a934e000102030405000000"),

"main\_folder": "Document",

"sub\_folder": {

"files": {

"name": "question",

"type": "text"

},

"name": "Assignment",

"sub-folder": [

{

"files": [

{

"name": "blog",

"type": "text"

}

],

"name": "Day-3"

},

{

"files": [

{

"name": "index",

"type": "html"

},

{

"name": "style",

"type": "css"

}

],

"name": "Day4"

}

]

}

},

{

"\_id": ObjectId("5a934e000102030405000000"),

"main\_folder": "Document",

"sub\_folder": {

"files": {

"name": "script",

"type": "js"

},

"name": "Assignment",

"sub-folder": [

{

"files": [

{

"name": "blog",

"type": "text"

}

],

"name": "Day-3"

},

{

"files": [

{

"name": "index",

"type": "html"

},

{

"name": "style",

"type": "css"

}

],

"name": "Day4"

}

]

}

}

]

**Example : Picture folder**

db.collection.aggregate([

{

"$unwind": "$sub\_folder"

},

{

"$unwind": "$sub\_folder.files"

},

{

"$match": {

main\_folder: "Picture"

}

}

])

**OUTPUT 3:**

[

{

"\_id": ObjectId("5a934e000102030405000002"),

"main\_folder": "Picture",

"sub\_folder": {

"files": {

"name": "videoprofile",

"type": "mp4"

},

"name": "Personal"

}

},

{

"\_id": ObjectId("5a934e000102030405000002"),

"main\_folder": "Picture",

"sub\_folder": {

"files": {

"name": "profilepic1",

"type": "png"

},

"name": "Personal"

}

},

{

"\_id": ObjectId("5a934e000102030405000002"),

"main\_folder": "Picture",

"sub\_folder": {

"files": {

"name": "signature-scan",

"type": "png"

},

"name": "Personal"

}

}

]