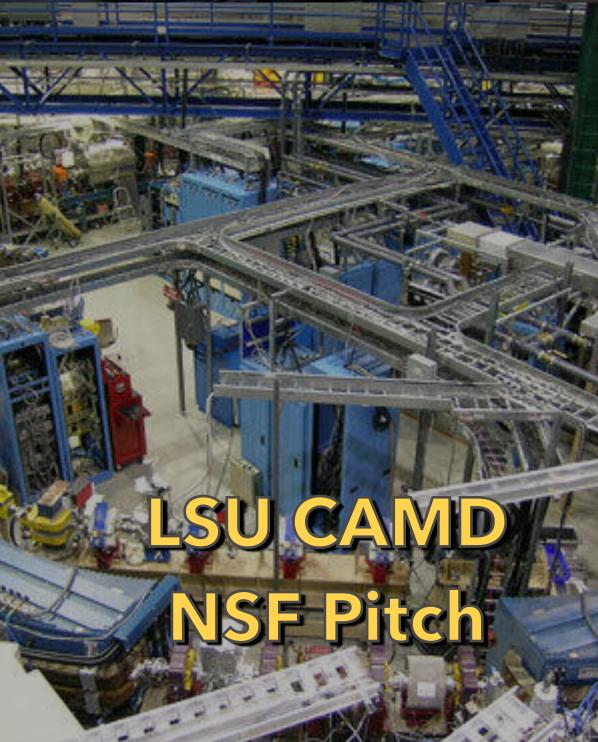


on

Digital Twin

Mississippi River





# Initial Assignments

#### Syngenta

- Hannah
- Tina
- Darrius
- Rob

#### XR

- Matin
- Webb

## PFT DT & Class

- Cody
- Alyssa
- Moon
- Isabella (v)
- Mimi
- Claude
- Aidan

#### Mount Vernon

- lan
- Mona
- Kristina
- Rainn
- Mahi

#### CAMD

Katy

#### Kinesiology

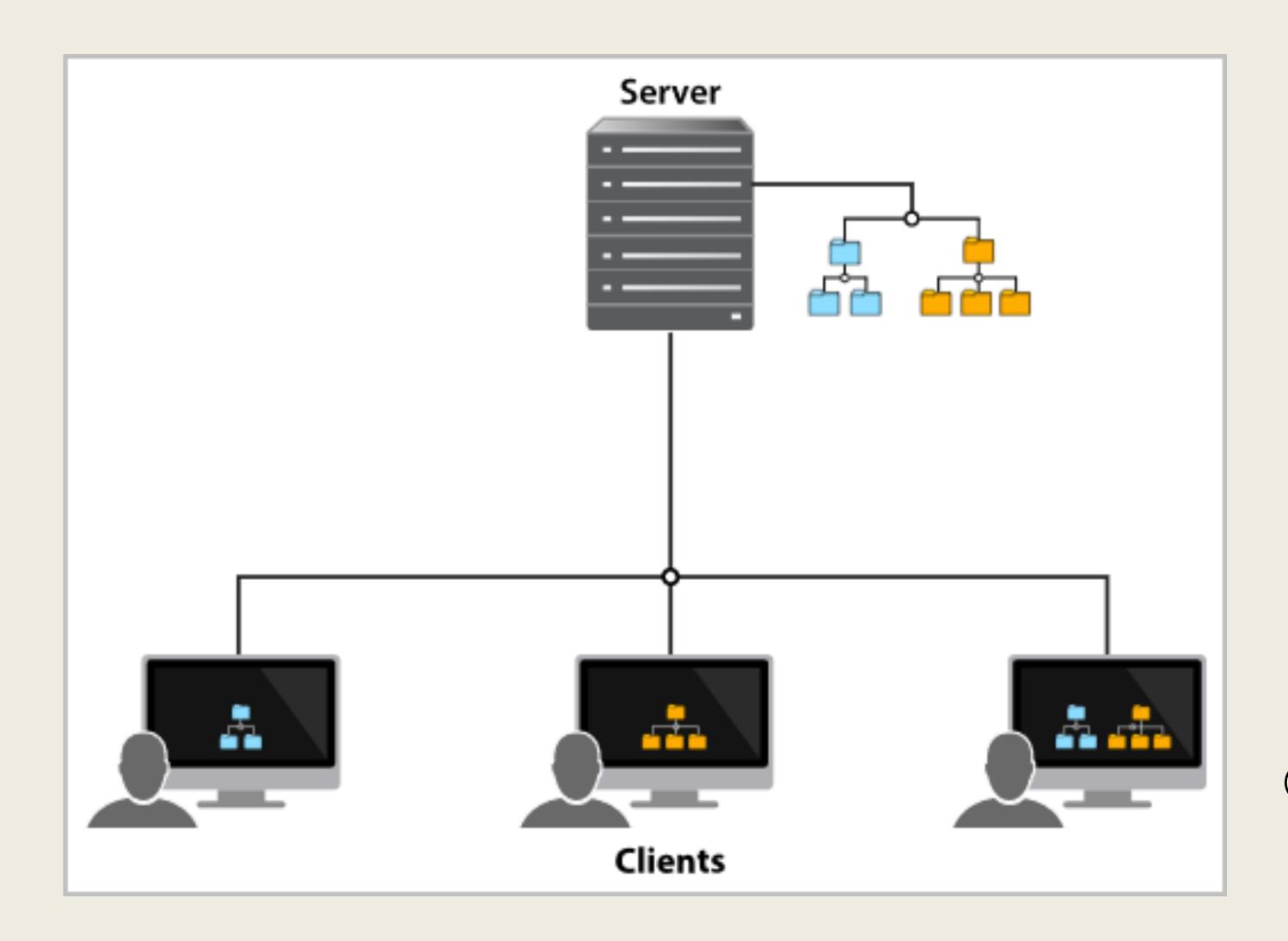
- Amir
- Matin

## Version Control

## Perforce

- Group project one source of truth
- Backs up ALL of our data
- Go back in time (unlimited undos)
- Install P4V and P4One
- Integrate it into your workflow!

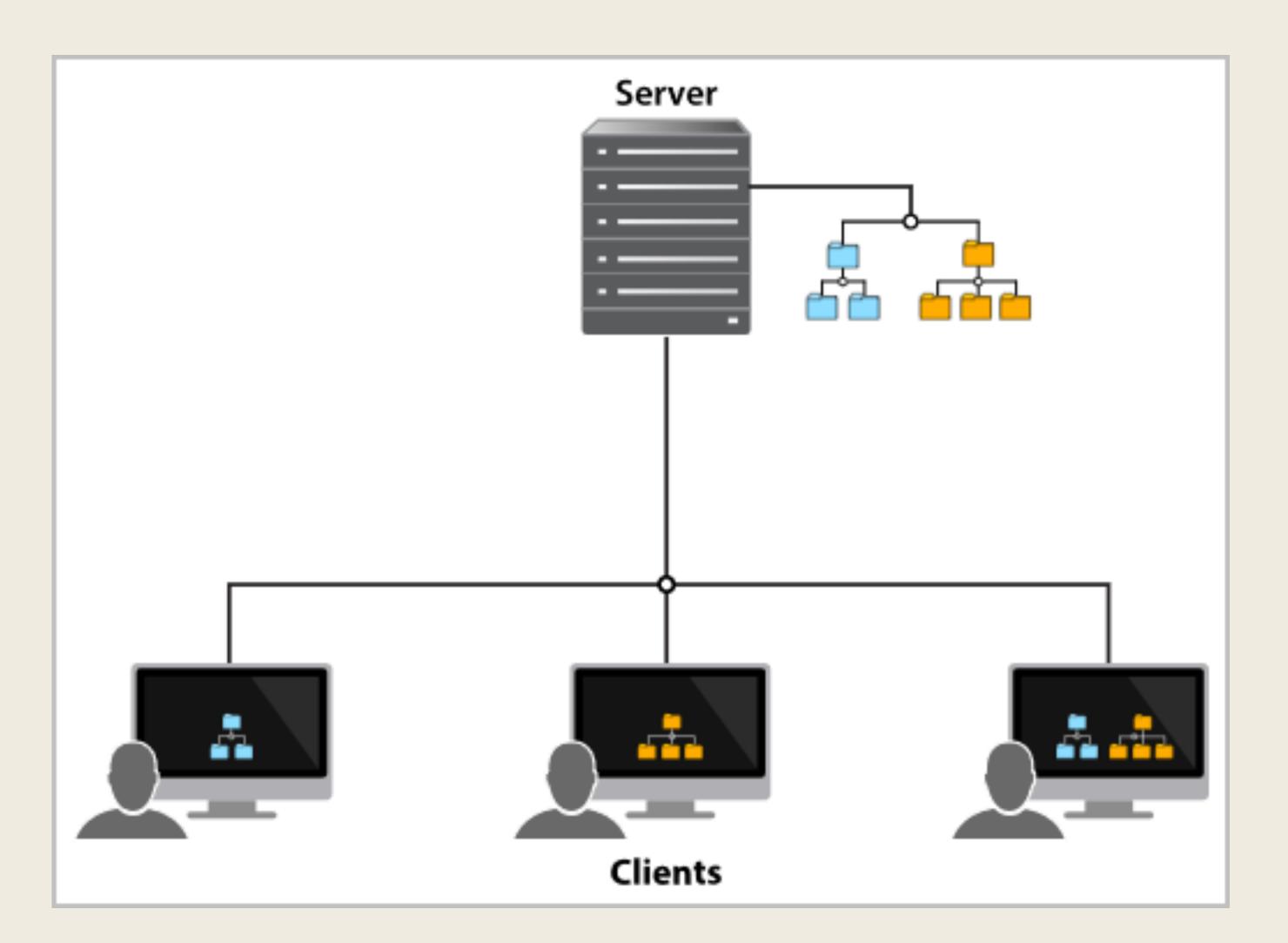
# WHAT IS A SINGLE SOURCE OF TRUTH?



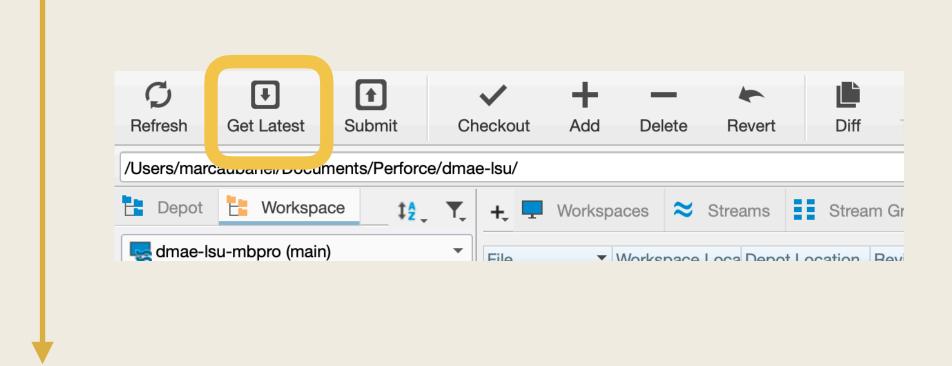
Source of Truth
(Depot)

Workspaces

(one workspace per computer)



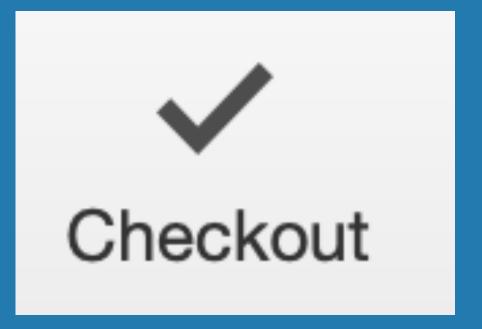
# Source of Truth (Depot)



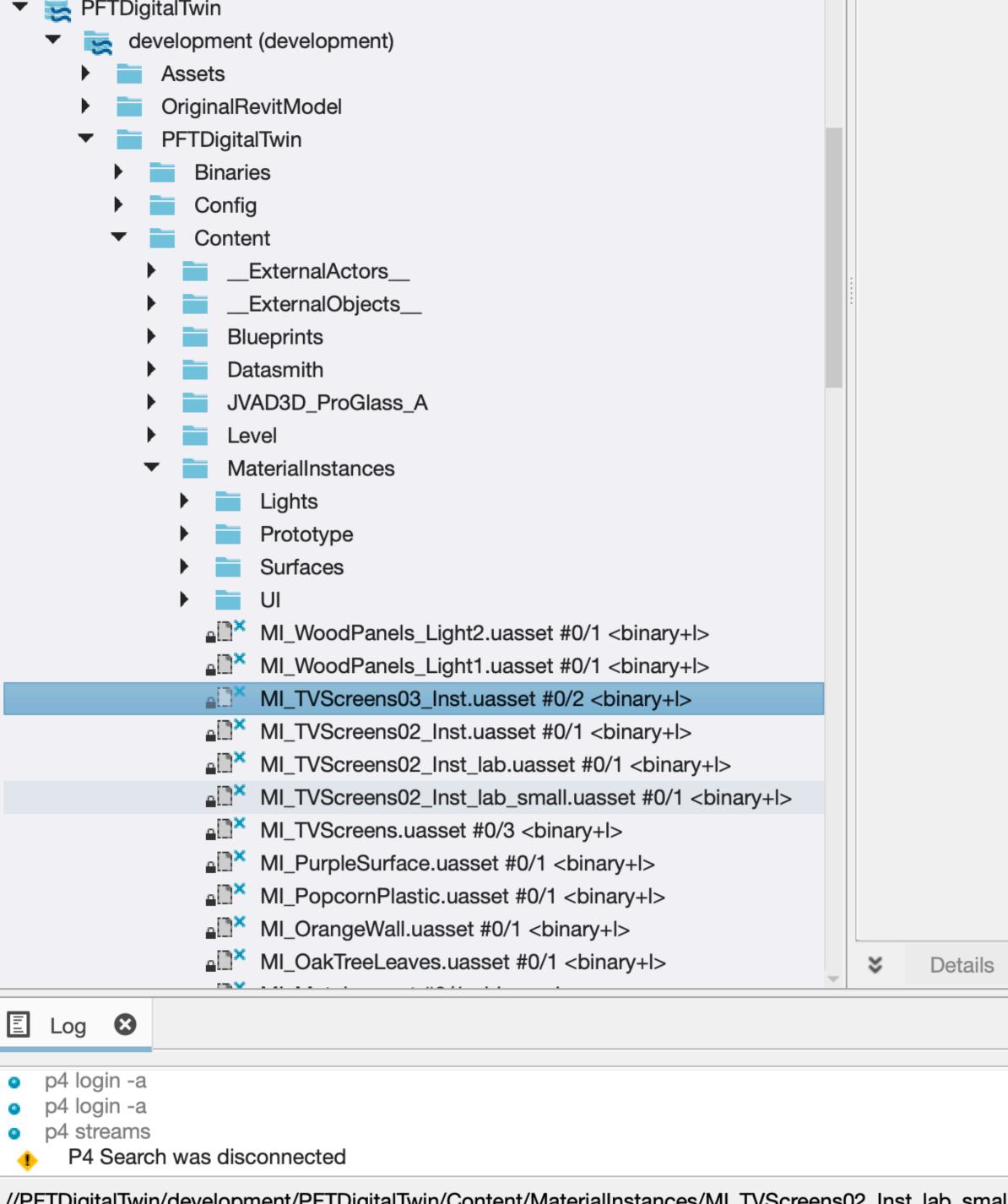
## Workspaces

(one workspace per computer)

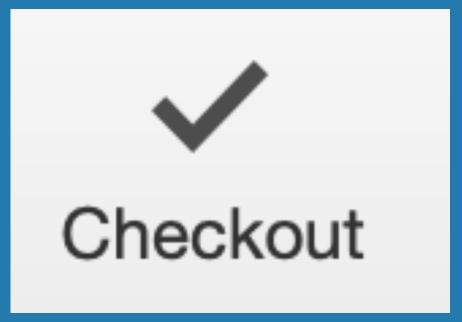
# ALL Files are READ ONLY by default



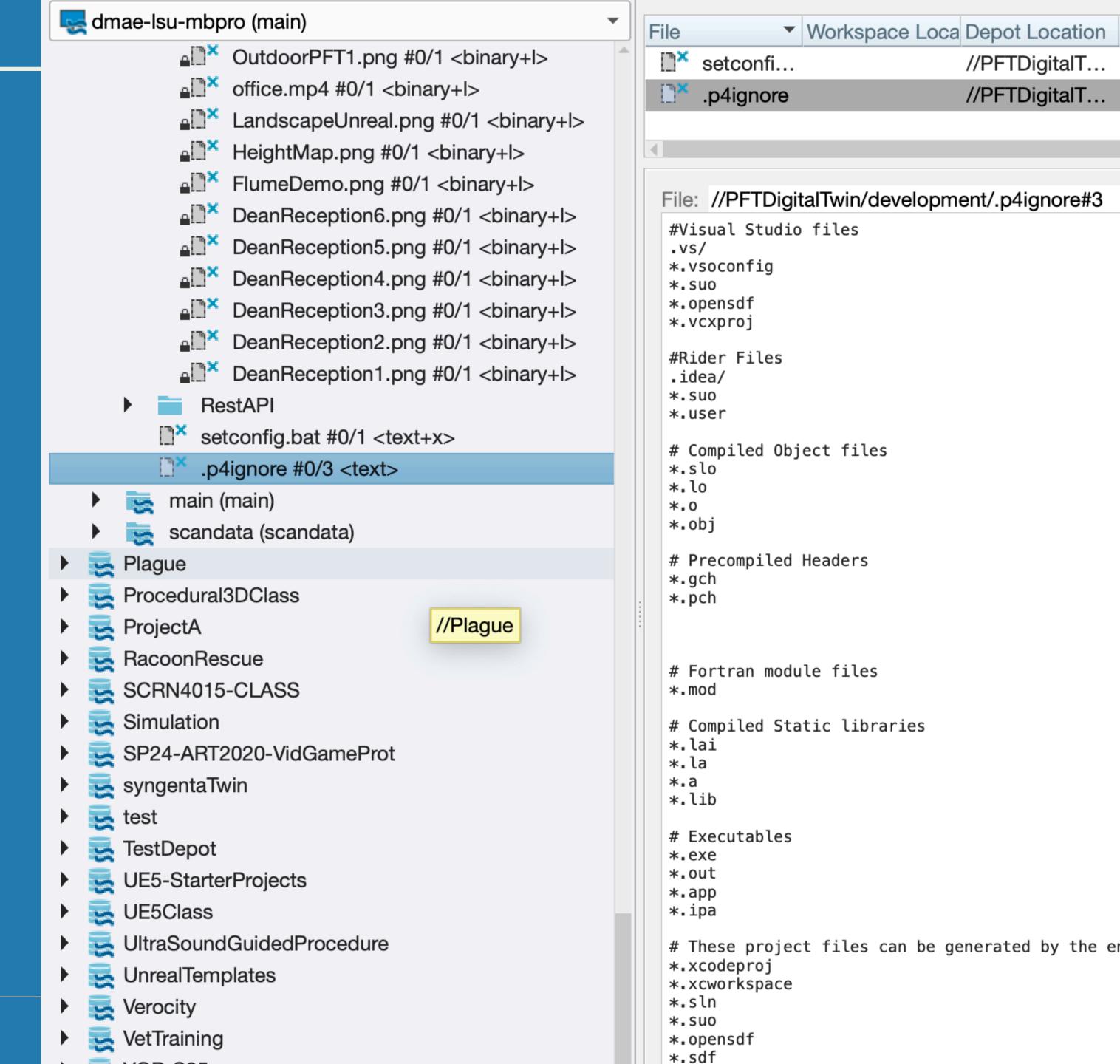
**Binaries Get Locked** Only person who has checked out can write to the workspace

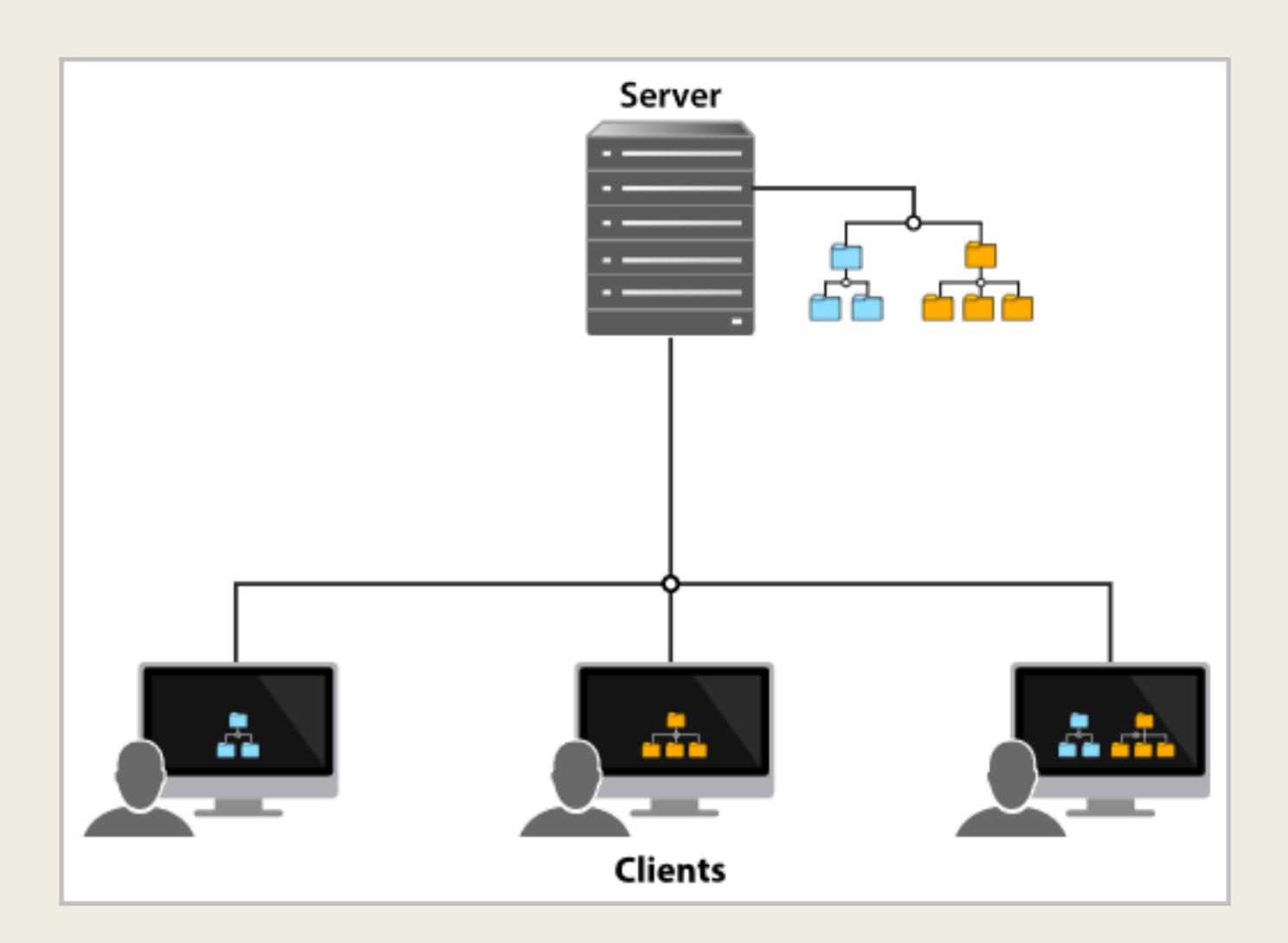


//PFTDigitalTwin/development/PFTDigitalTwin/Content/MaterialInstances/MI\_TVScreens02\_Inst\_lab\_small



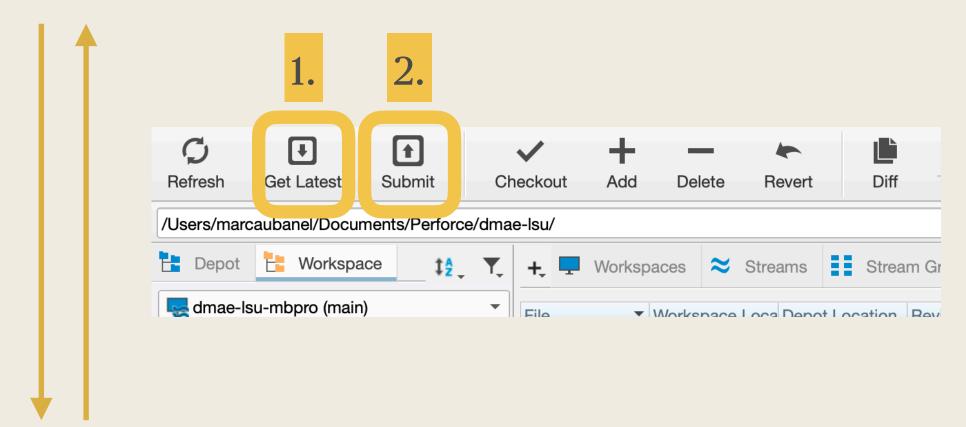
Text files (and other non-binary files can be checked out by everyone then you have to resolve the conflict





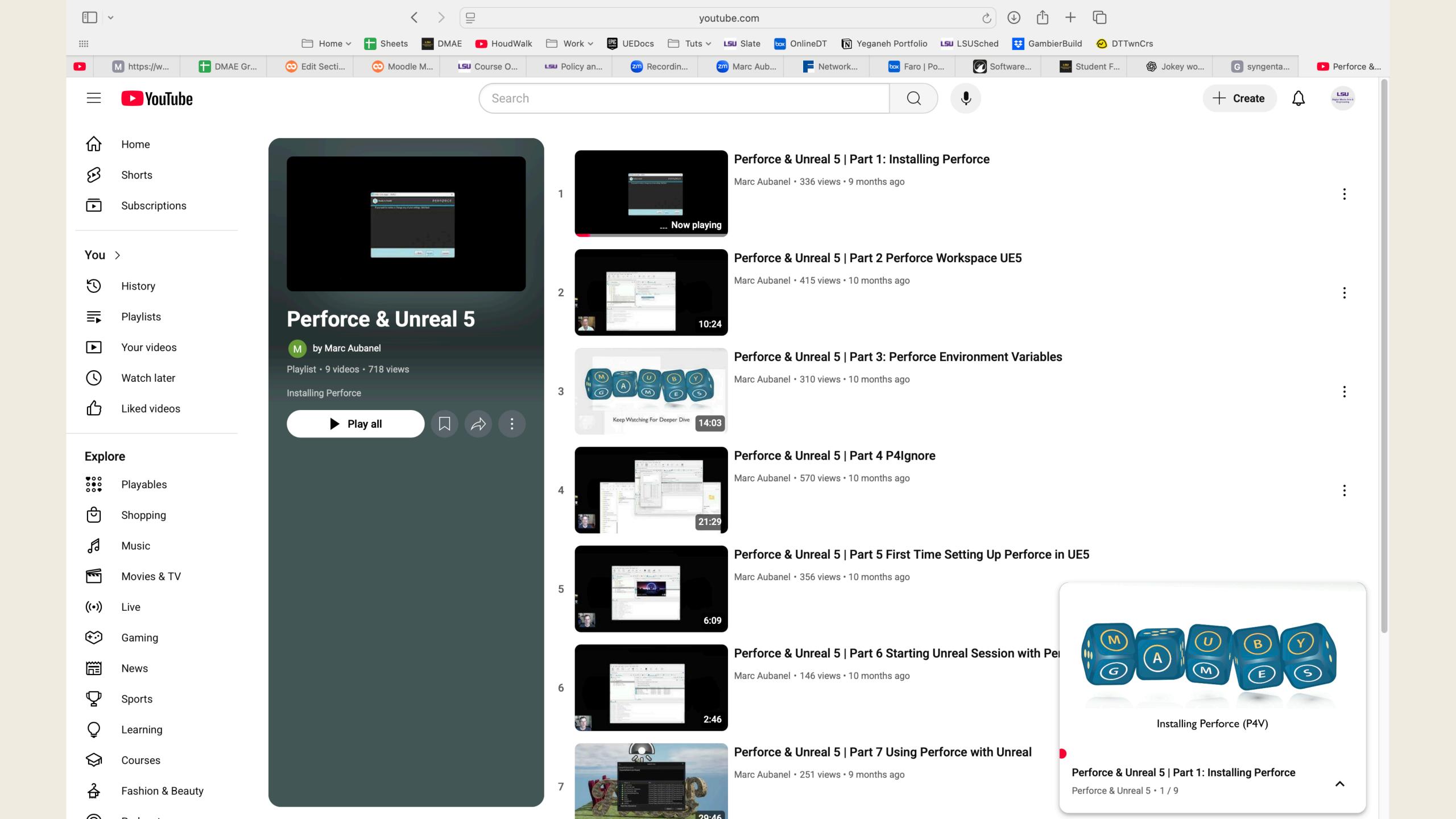
### Source of Truth

(Depot)



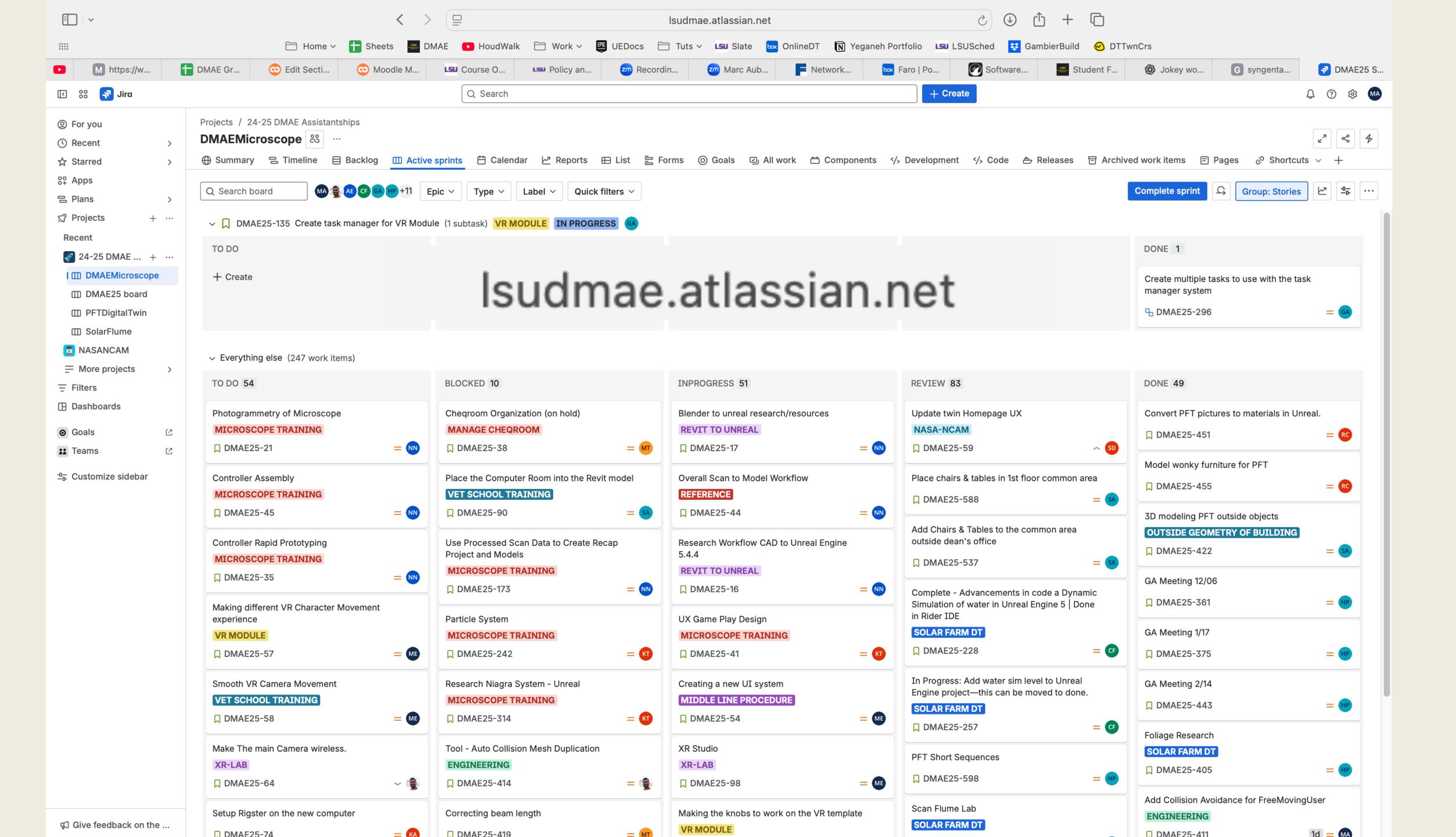
## Workspaces

(one workspace per computer)



## Task Management Tool





TO DO

+ Create

Everything else (247 work items)

#### TO DO 54

Photogrammetry of Microscope

#### MICROSCOPE TRAINING





**Controller Assembly** 

#### MICROSCOPE TRAINING

□ DMAE25-45



**Controller Rapid Prototyping** 

#### MICROSCOPE TRAINING

□ DMAE25-35



Making different VR Character Movement experience

#### **VR MODULE**

# Every Week

- Add tasks for the week
- If tasks take longer than a week break them into smaller chunks
- Be prepared to VERY QUICKLY show your tasks on Fridays

#### **BLOCKED 10**

Cheqroom Organization (on hold)

#### MANAGE CHEQROOM





Place the Computer Room into the Revit model

#### **VET SCHOOL TRAINING**

☐ DMAE25-90



Use Processed Scan Data to Create Recap Project and Models

#### MICROSCOPE TRAINING

☐ DMAE25-173



## Move To Blocked...

- If the task cannot be completed
  - Waiting on work from someone else
  - Is missing an element not in your control
  - Is stalled by some dependency
  - Any other reason....

#### **INPROGRESS**

**INPROGRESS** 51

Blender to unreal research/resources

#### **REVIT TO UNREAL**

□ DMAE25-17



Overall Scan to Model Workflow

#### REFERENCE

□ DMAE25-44



Research Workflow CAD to Unreal Engine 5.4.4

#### **REVIT TO UNREAL**

□ DMAE25-16



**UX Game Play Design** 

#### MICROSCOPE TRAINING

# Move To In Progress...

- When task is under way
- Don't wait until you are finished
- You should ALWAYS have a task in progress
- If you don't know what to do ASK A MENTOR!

#### **INPROGRESS**

**INPROGRESS** 51

Blender to unreal research/resources

#### **REVIT TO UNREAL**

□ DMAE25-17



Overall Scan to Model Workflow

#### REFERENCE

□ DMAE25-44



Research Workflow CAD to Unreal Engine 5.4.4

#### **REVIT TO UNREAL**

□ DMAE25-16



**UX Game Play Design** 

#### MICROSCOPE TRAINING

# Move To In Progress...

- When task is under way
- Don't wait until you are finished
- You should ALWAYS have a task in progress
- If you don't know what to do ASK A MENTOR!

#### **REVIEW**

## Move To Review...

#### REVIEW 83

Update twin Homepage UX

#### **NASA-NCAM**

^

☐ DMAE25-59



Place chairs & tables in 1st floor common area

□ DMAE25-588



Add Chairs & Tables to the common area outside dean's office

=

☐ DMAE25-537



Complete - Advancements in code a Dynamic Simulation of water in Unreal Engine 5 | Do...

Move to review when task is complete

#### DONE 1

Create multiple tasks to use with the task manager system

**→** DMAE25-296



#### DONE 49

Convert PFT pictures to materials in Unreal.

□ DMAE25-451



Model wonky furniture for PFT

=

☐ DMAE25-455



3D modeling PFT outside objects

#### OUTSIDE GEOMETRY OF BUILD...

□ DMAE25-422



GA Meeting 12/06

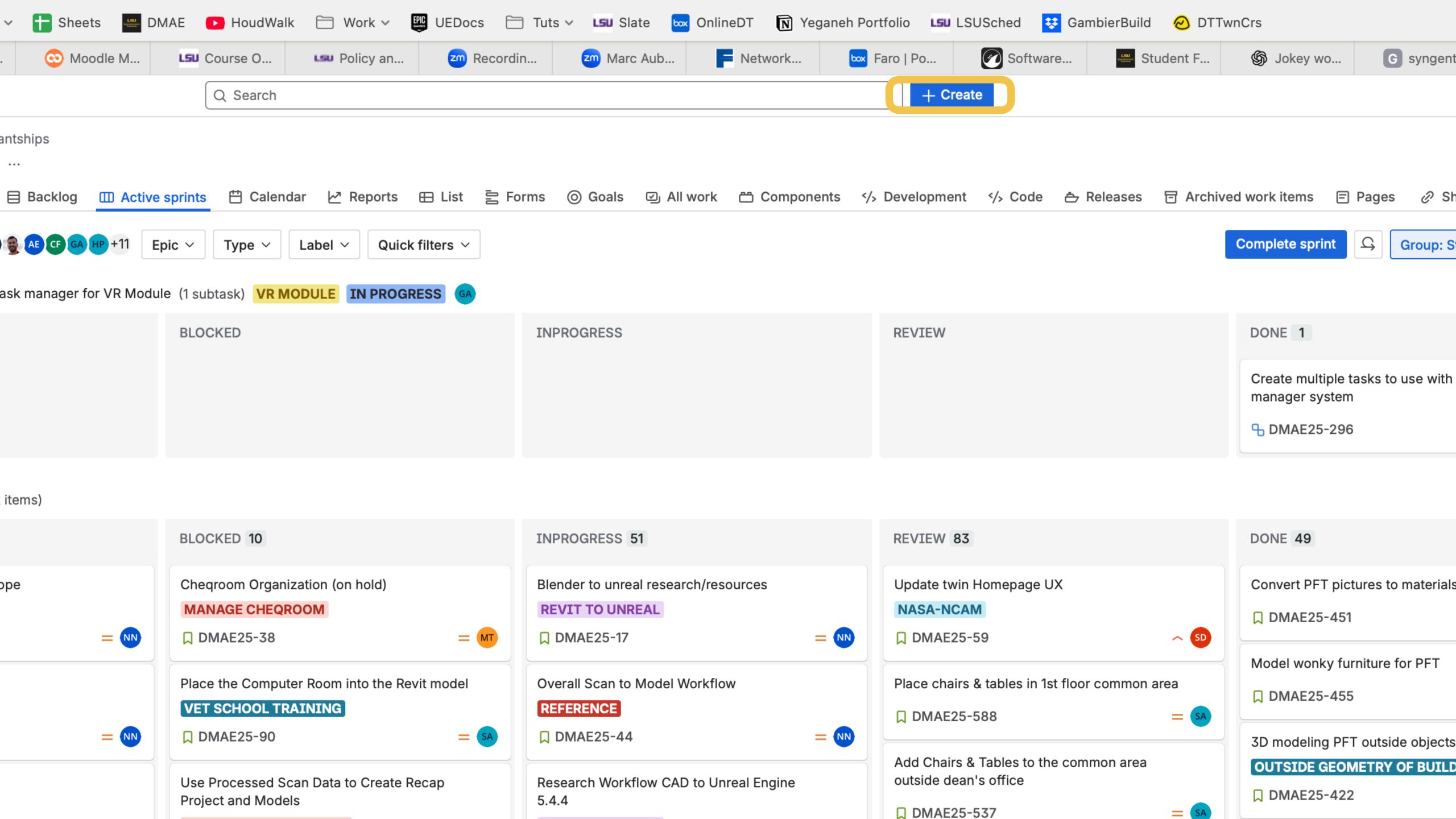
=

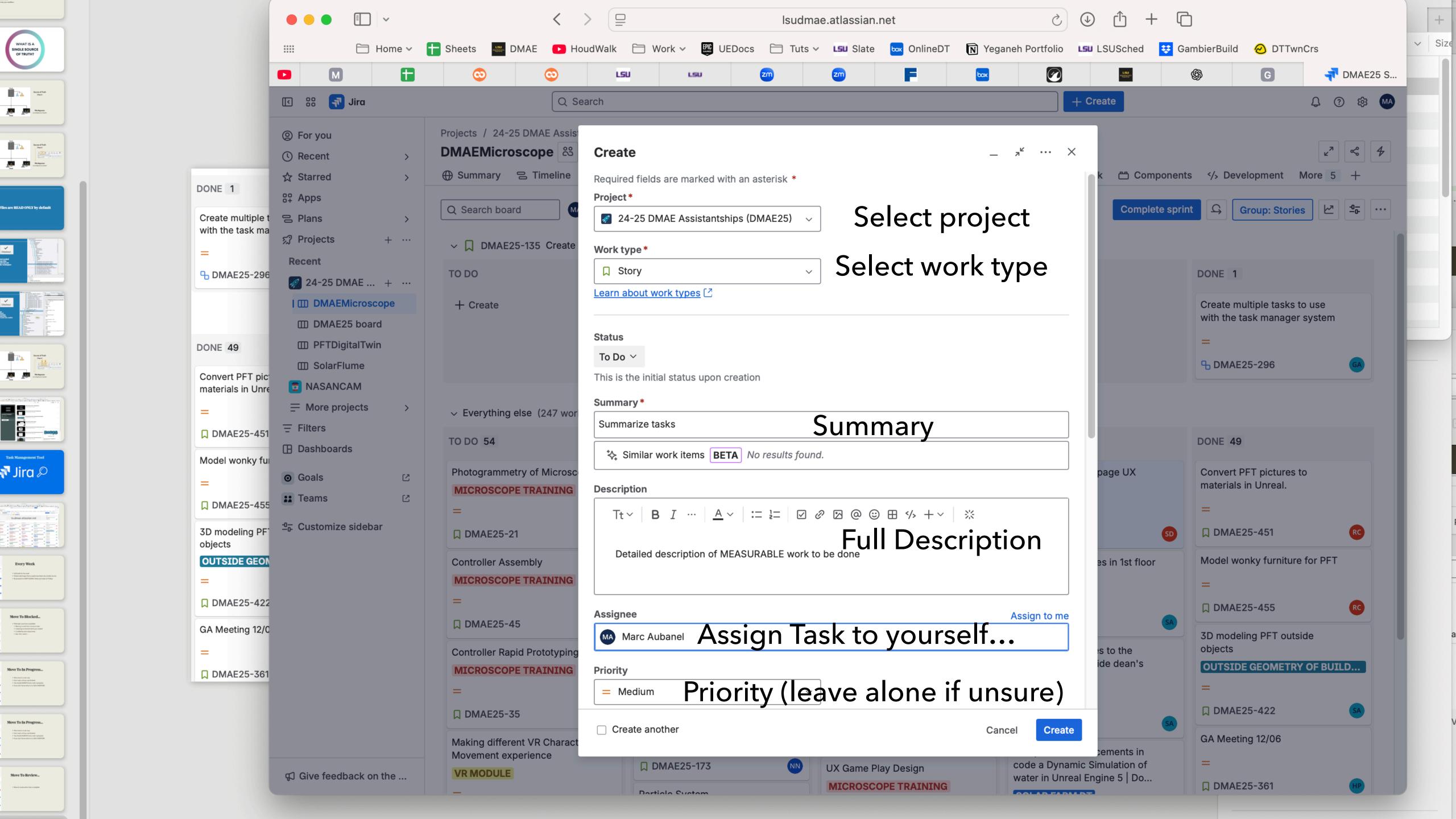
☐ DMAE25-361

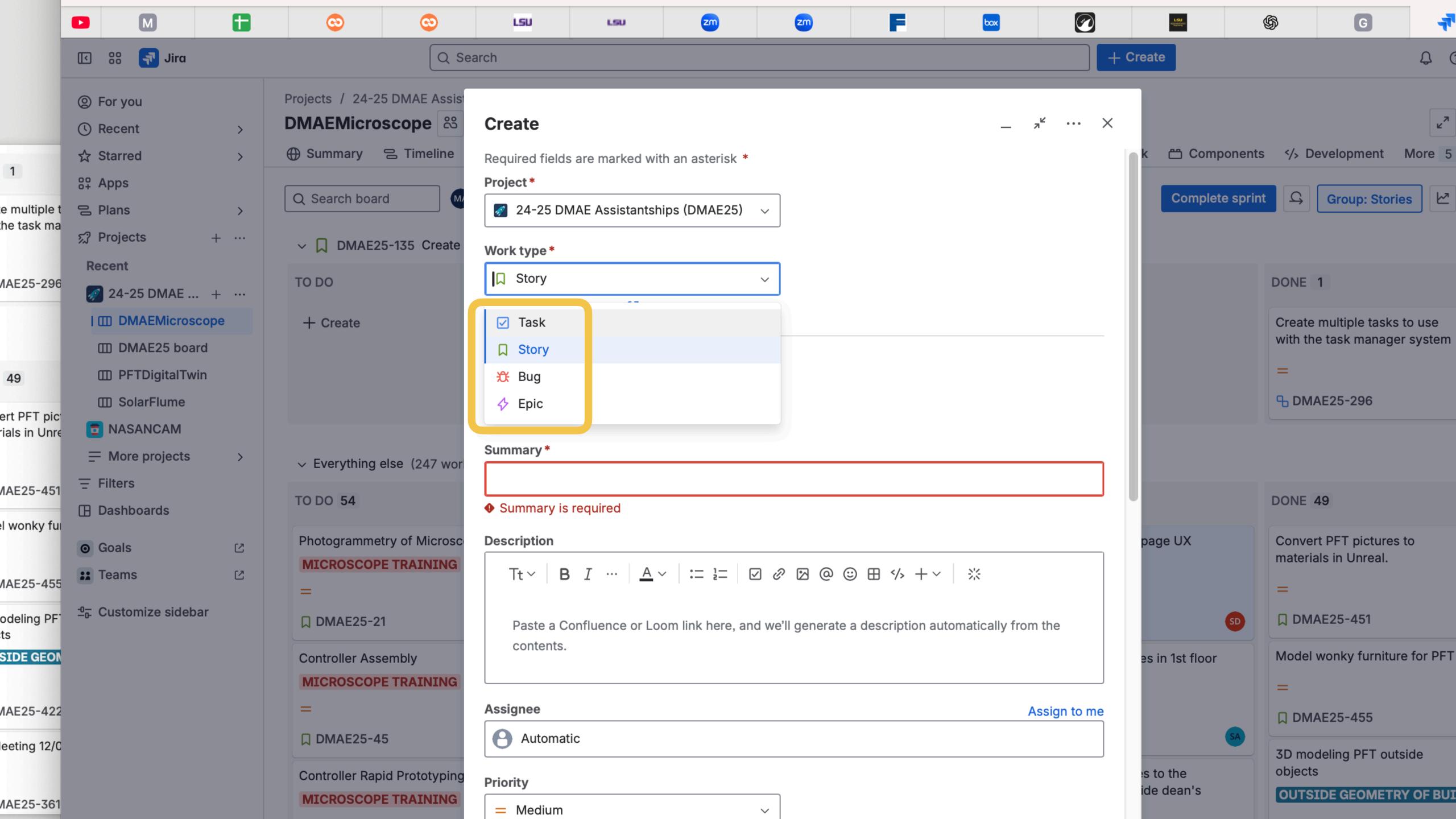


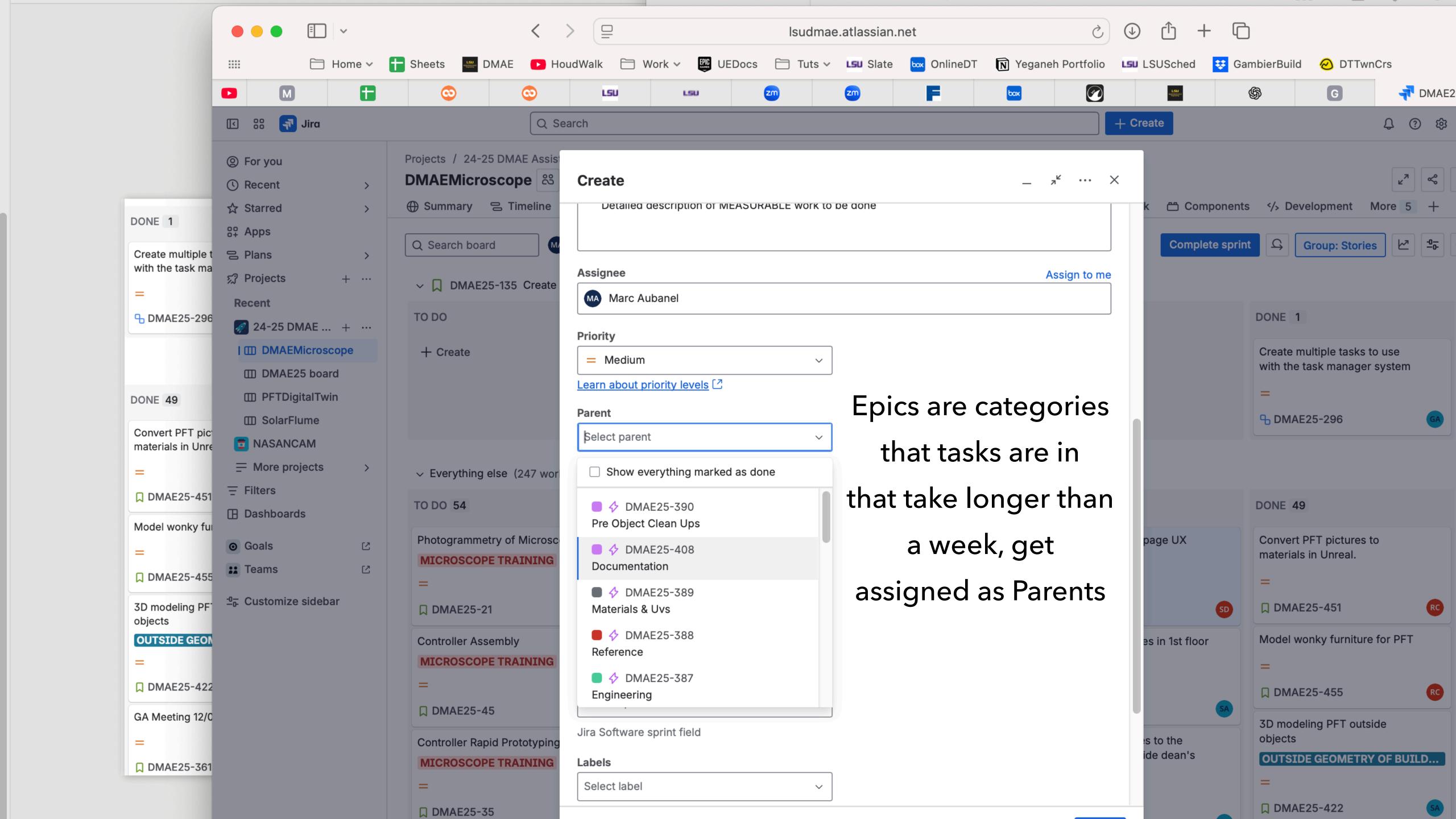
## Move To Done...

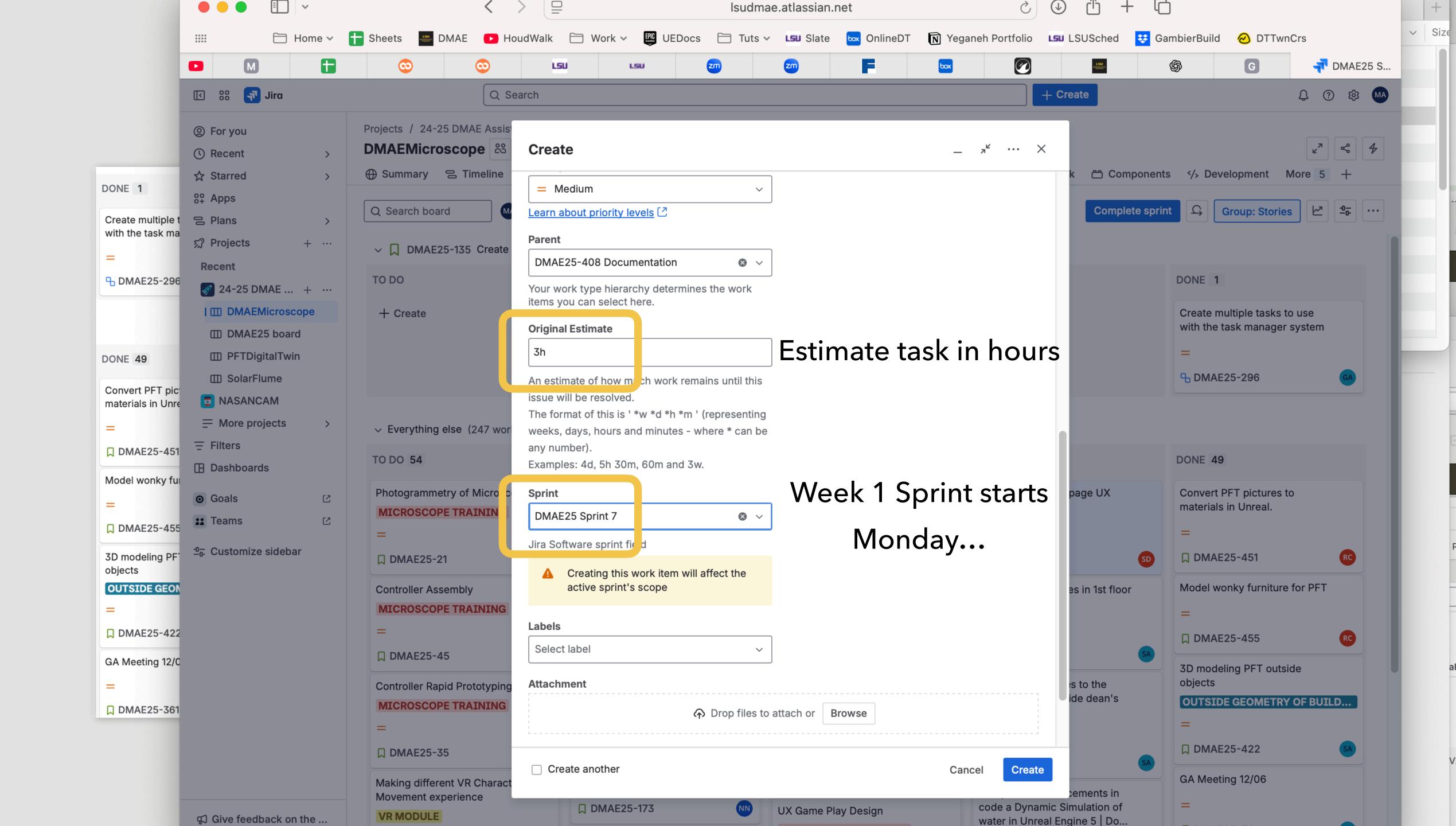
- Every Friday we will split into project groups and present finished work
- Only the project lead / faculty lead will be able to move tasks to done as a form of quality control

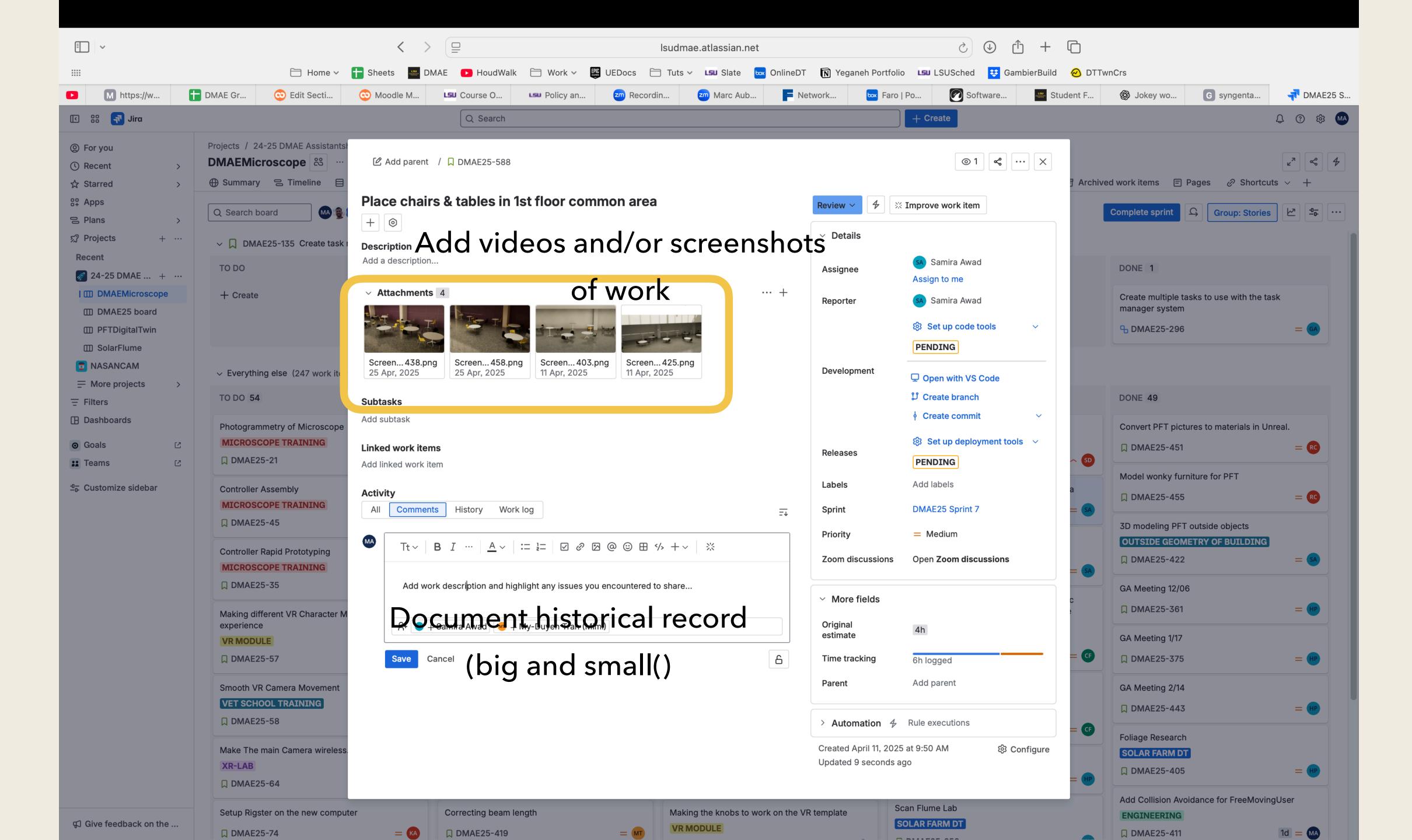


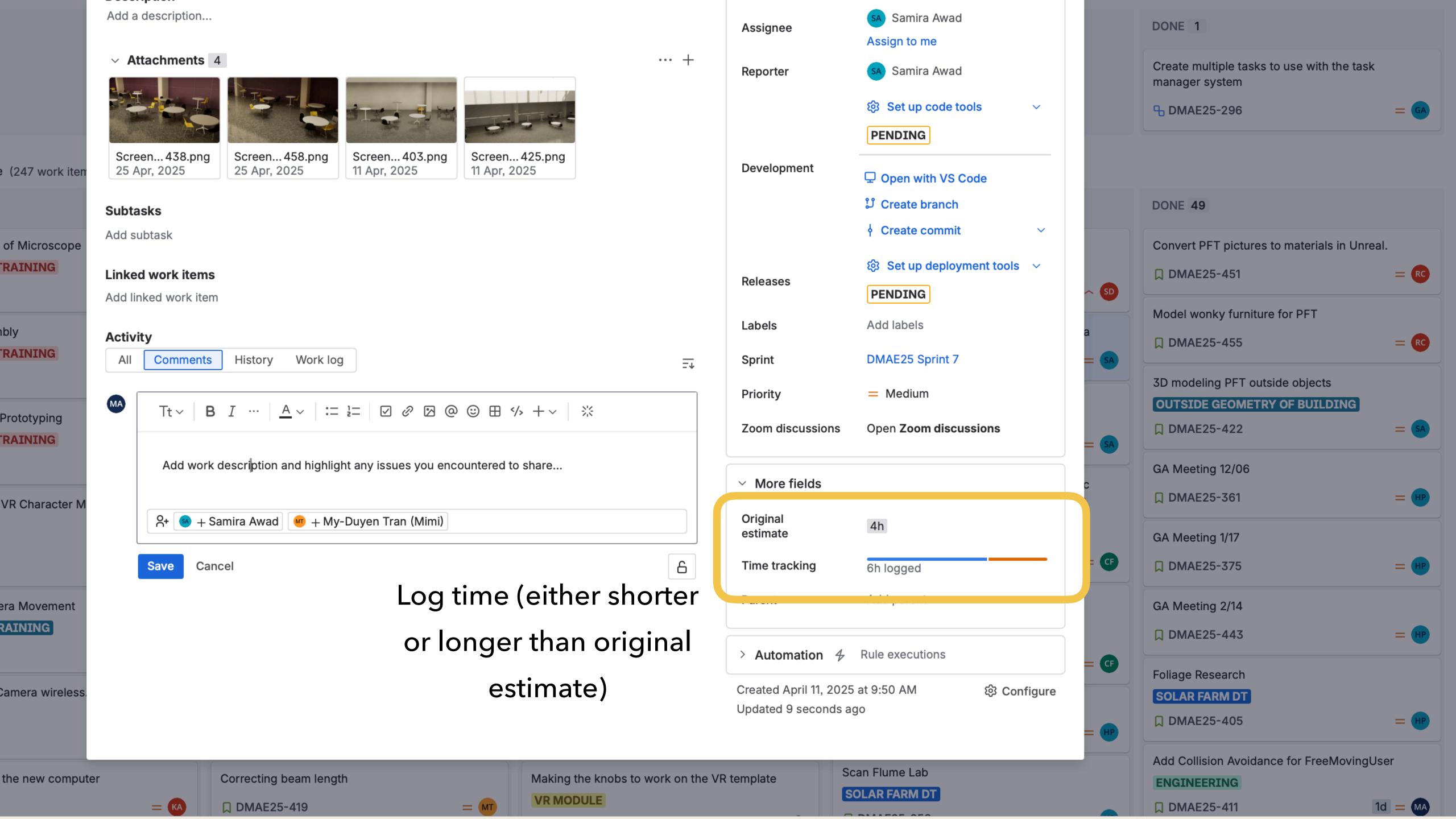


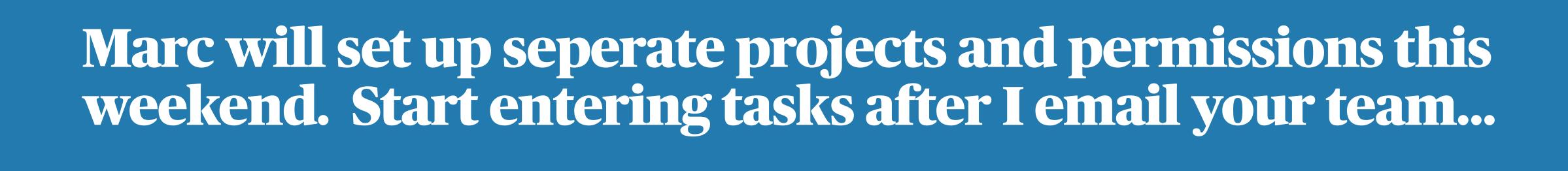












# Questions?

Marc, that was way too much...