

Solution Engineering Home Assignment

Part 1 (UI and preparation):

1. Create a demo account on the Dataloop platform - <https://console.dataloop.ai/>
2. Create a project
3. Create a dataset
4. Upload up to 10 images of your choice into the dataset (you can use Google Images or any free data source you may find)
5. Create a basic Recipe for this dataset. Make sure to use Labels and Attributes that have relevance to the data presented.
6. Annotate the images with tools of your choice. Try and use at least 2 types of annotation tools.

You may refer to the [Dataloop documentation](#) for technical tips and guidance.

In addition to the steps listed above, select any other feature you'd like and add it into the flow.

Part 2 (SDK):

1. Install [dataloop SDK](#)
2. Create a script that does the following:
 - a. Create new dataset
 - b. Add 2 labels to the dataset recipe (class1 and class2 and key)
 - c. upload directory with 5 images
 - d. Add a UTM metadata to an item user metadata - collection time
{collected:<the current time in UTM timestamp>}
 - e. Add a classification of class1 to the first two of the images you uploaded
 - f. Add a classification of class2 to the rest of the images you uploaded
 - g. Add 5 random key points with the label "key" to one item
3. Create a query that selects only image items that have been labeled as "class1"
4. Create a query that retrieves all point annotations from the dataset