

Appendix G – Use Case Descriptions

Monitor unit prediction performance / UseCase Description	
ITEM	VALUE
UseCase	Monitor unit prediction performance
Summary	User can monitor predictions and actuals for a certain unit in intervals that is configurable, but two weeks as the default backwards as two different series in one graph.
Actor	Machine Learning Engineer
Precondition	
Postcondition	
Base Sequence	1. The user clicks on a certain ML pipeline to access the unit information page. 2. The user can monitor predictions and actuals for a certain unit in intervals that is configurable, but two weeks as the default backwards as two different series in one graph.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

Monitor model information / UseCase Description	
ITEM	VALUE
UseCase	Monitor model information
Summary	<p>The user can monitor the information about the current active model for each unit. The information includes:</p> <ul style="list-style-type: none"> - Finished Training on - Model info (id number) - Backtesting MAE - number of BacktestingData Instances - Train MAE - number of TrainData Instances - Test MAE - number of TestData Instances
Actor	Machine Learning Engineer
Precondition	
Postcondition	
Base Sequence	<ol style="list-style-type: none"> 1. The user clicks on a certain ML pipeline to access the unit information page. 2. The user can monitor the information about the current active model for each unit.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

Trigger model retrain / UseCase Description	
ITEM	VALUE
UseCase	Trigger model retrain
Summary	The user can trigger new model training for a certain unit through the system.
Actor	Machine Learning Engineer
Precondition	
Postcondition	
Base Sequence	1. The user clicks on a certain ML pipeline to access the unit information page. 2. The user can trigger new model training for a certain unit with a button click.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

Monitor current model performance / UseCase Description	
ITEM	VALUE
UseCase	Monitor current model performance
Summary	The system will notify user about significant changes in prediction performance of the current model.
Actor	Machine Learning Engineer
Precondition	
Postcondition	
Base Sequence	1. The user clicks on a certain ML pipeline to access the unit information page. 2. The user will get notification from the system if there is significant changes in prediction performance of the current model.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

Monitor training data metrics / UseCase Description	
ITEM	VALUE
UseCase	Monitor training data metrics
Summary	The user can monitor the metrics based on the training data retrieved from the forecast system.
Actor	
Precondition	All base sequence of use case Monitor model information are complete.
Postcondition	
Base Sequence	1. The user clicks on a certain model to access model information page. 2. The user can monitor the metrics based on the training data retrieved from the forecast system.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

Monitor feature importance / UseCase Description	
ITEM	VALUE
UseCase	Monitor feature importance
Summary	The user can monitor feature importance displayed in barplot.
Actor	
Precondition	All base sequence of use case Monitor model information are complete.
Postcondition	
Base Sequence	1. The user clicks on a certain model to access model information page. 2. The user can monitor feature importance displayed in barplot.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

Monitor feature frequency / UseCase Description	
ITEM	VALUE
UseCase	Monitor feature frequency
Summary	The user can monitor feature frequency in histogram, where different feature value in either continuous or discrete format is compared against frequency (distribution of feature value) for both training data and real time data.
Actor	
Precondition	All base sequence of use case Monitor model information are complete.
Postcondition	
Base Sequence	<ol style="list-style-type: none"> 1. The user clicks on a certain model to access model information page. 2. The user can monitor feature frequency in histogram, where different feature value in either continuous or discrete format is compared against frequency (distribution of feature value) for both training data and real time data.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

