LeanDA - Entity Ralationship Diagram

Shift	
PK	**_id**
	*shiftType (string, enum: [FS, SS, NS])
	startTime (date)
	stopTime (date)
	workStation (ref. WorkStation)
	*daysOfWeek (number, enum:[0,1,2,3,4,5,6])
	durationMin (virtual function)
	timestamps

PLC	
PK	**_id**
	*name (string)
	slug (string)
	description (string)
	inputs ([ref. PLCinput])
	outputs ([ref. PLCoutput])
	WS (ref. WorkStation)

PLCinput	
PK	**_id**
	*name (string)
	*signal (string, enum [analog, digital, relay])
	PLC (ref. PLC)

PLCoutput	
PK	**_id**
	*name (string)
	*signal (string, enum [analog, digital, relay])
	PLC (ref. PLC)

WorkStationGroup	
PK	**_id**
	*name (string, unique)
	*kostenstelle (string, unique)
	slug (string)
	workstations([ref. workstation]}
	timestamps

WorkStation	
PK	**_id**
	*name (string, unique)
	*WS_num (string, unique)
	slug (string)
	workStationType (string, enum: [TF, HT], def: TF)
	inUse (boolean, def: true)
	unlocked (boolean, def: true)
	shifts ([ref. Shift])
	AVOs ([ref. AVO])
	states ([ref.state])
	workStationGroup (ref. WorkStationGroup)
	liveState (virtual function)
	picture (ref. Picture)
	timestamps

FAUF	
PK	**_id**
	*FAUF_num (string)
	AVOs ([ref. AVO])
	timestamps

AVO	
PK	**_id**
	*AVO_num (string)
	FAUF (ref. FAUF)
	sequences ([ref. Sequence])
	WS (ref. WorkStation)
	liveState (virtual function)
	timestamps

Sequence	
PK	**_id**
	startTS (date)
	stopTS (date)
	AVO (ref. AVO)
	state (ref. State)
	durationMin (virtual function)

Picture	
PK	**_id**
	*title (string, unique)
	slug (string)
	description (string)
	*imagePath(string)
	timestamps

State	
PK	**_id**
	*name (string, unique)
	inUse (boolean, default: true)
	stateGroup (ref. stateGroup)
	workstations ([ref.workstation])

StateGroup	
PK	**_id**
	*name (string, unique)
	slug (string)
	states([ref. state])
	timestamps

Legend