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[WIMNN-69] Documentation Submission Created: 05/Nov/19 Updated: 19/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Story	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Unassigned
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Σ Remaining Estimate:	Not Specified	**Remaining Estimate:**	Not Specified
Σ Time Spent:	Not Specified	**Time Spent:**	Not Specified
Σ Original Estimate:	Not Specified	**Original Estimate:**	Not Specified

Sub-Tasks:

Key	Summary	Type	Status	Assignee
WIMNN-70	Create methodology for code review	Sub-task	Closed	Valastin Viktor
WIMNN-71	Update Webpage with second retrospect...	Sub-task	Closed	Valastin Viktor
WIMNN-72	Create Management Documentation	Sub-task	Closed	Snincak Marek
WIMNN-73	Finalize formatting of final document	Sub-task	Closed	Scipa Christian
WIMNN-75	Create global "definition of done" m...	Sub-task	Closed	Snincak Marek
WIMNN-76	Publish "document storage methodology...	Sub-task	Closed	Snincak Marek
WIMNN-78	Create "document storage" methodology	Sub-task	Closed	Tonhauzer Martin
WIMNN-79	Add steps taken to each retrospective	Sub-task	Closed	Scipa Christian
WIMNN-80	Add product owners to the webpage	Sub-task	Closed	Valastin Viktor
WIMNN-81	Create Engineering Project Documentation	Sub-task	Closed	Tonhauzer Martin
WIMNN-95	Create NDA compliant version of docum...	Sub-task	In Review	Snincak Marek

Business Priority:	Should have
Story Points:	5
Sprint:	WIMNN Sprint 3, WIMNN Sprint 4

Documentation Submission (WIMNN-69)

[WIMNN-70] Create methodology for code review Created: 06/Nov/19 Updated: 19/Nov/19 Resolved: 19/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Valastin Viktor
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Documentation Submission (WIMNN-69)

[WIMNN-71] Update Webpage with second retrospective and third sprint description Created: 06/Nov/19 Updated: 12/Nov/19 Resolved: 12/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Valastin Viktor
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Documentation Submission (WIMNN-69)

[WIMNN-72] Create Management Documentation

Created: 06/Nov/19 Updated: 18/Nov/19 Resolved: 18/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Snincak Marek
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Attachments:	Big picture.docx

Description

refer to this link http://www2.fiit.stuba.sk/~bielik/courses/tp-slov/tp-main.html#odovzd-zs
section: Obsah a forma projektovej dokumentácie > Riadenie projektu

and this document http://www2.fiit.stuba.sk/~bielik/courses/tp-slov/materialy/dokumentacia2019-20.pdf

Documentation Submission (WIMNN-69)

[WIMNN-73] Finalize formatting of final document

Created: 06/Nov/19 Updated: 20/Nov/19 Resolved: 20/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Scipa Christian
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Attachments:	tp2019-20_milnik1_tim08.docx tp2019-20_milnik1_tim08.pdf

Description

refer to the hints at the bottom of http://www2.fiit.stuba.sk/~bielik/courses/tp-slov/tp-main.html

Comments

Comment by Scipa Christian [20/Nov/19]

Tonhauzer Martin

Documentation Submission (WIMNN-69)

[WIMNN-75] Create global "definition of done" methodology

Created: 10/Nov/19 Updated: 12/Nov/19 Resolved: 12/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Snincak Marek
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Task type:	documentation

Documentation Submission (WIMNN-69)

[WIMNN-76] Publish "document storage methodology" on projects webpage Created: 10/Nov/19 Updated: 12/Nov/19 Resolved: 12/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Snincak Marek
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Documentation Submission (WIMNN-69)

[WIMNN-78] Create "document storage" methodology Created: 12/Nov/19 Updated: 16/Nov/19 Resolved: 16/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Tonhauzer Martin
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Task type:	documentation

Documentation Submission (WIMNN-69)

[WIMNN-79] Add steps taken to each retrospective Created: 12/Nov/19 Updated: 16/Nov/19 Resolved: 16/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Scipa Christian
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Task type:	documentation

Description

Add it to retrospective template and to previously created retrospective documents as well (we talked about it, but didn't write it there).

Comments

Comment by Scipa Christian [16/Nov/19]

Nová verzia sprint retrospektív sa nachádza v branchi zapisnica7 alebo na gdrive.
Snincak Marek

Documentation Submission (WIMNN-69)

[WIMNN-80] Add product owners to the webpage Created: 12/Nov/19 Updated: 18/Nov/19 Resolved: 18/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Valastin Viktor
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Task type:	documentation

Description

AC:

there is picture added to the webpage.

Documentation Submission (WIMNN-69)

[WIMNN-81] Create Engineering Project Documentation Created: 12/Nov/19 Updated: 20/Nov/19 Resolved: 20/Nov/19

Status:	Closed
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Tonhauzer Martin
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Description

refer to this link http://www2.fiit.stuba.sk/~bielik/courses/tp-slov/tp-main.html#odovzd-zs
section: Obsah a forma projektovej dokumentácie > Inžinierske dielo (softvérový systém/informačný systém) > Etapa 1 - zimny semester > big picture

and this document http://www2.fiit.stuba.sk/~bielik/courses/tp-slov/materialy/dokumentacia2019-20.pdf

Documentation Submission (WIMNN-69)

[WIMNN-95] Create NDA compliant version of documentation and publish it on webpage Created: 21/Nov/19 Updated: 21/Nov/19

Status:	In Review
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Snincak Marek	**Assignee:**	Snincak Marek
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Task type:	documentation

[WIMNN-85] Create NN MLP prototype Created: 19/Nov/19 Updated: 21/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Story	**Priority:**	Major
Reporter:	Tonhauzer Martin	**Assignee:**	Unassigned
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Σ Remaining Estimate:	Not Specified	**Remaining Estimate:**	Not Specified
Σ Time Spent:	Not Specified	**Time Spent:**	Not Specified
Σ Original Estimate:	Not Specified	**Original Estimate:**	Not Specified

Sub-Tasks:

Key	Summary	Type	Status	Assignee
WIMNN-89	Process input created in task WIMNN-84	Sub-task	To Do	Tonhauzer Martin
WIMNN-90	Create model	Sub-task	To Do	Chreno Martin

Business Priority:	Should have
Story Points:	8
Epic Link:	NN Simulation
Sprint:	WIMNN Sprint 4

Description

*Goal: *
Create a prototype of neural network that is possible to train with a prepared dataset. As the input of NN would be a set of Force records and expected output will be the weight/pressure generated by force record. Refer to the document

Acceptance criteria:

- has a prototype of NN which is possible to learn on a prepared dataset
- output is a document describing results.

Create NN MLP prototype (WIMNN-85)

[WIMNN-89] Process input created in task WIMNN-84 Created: 20/Nov/19 Updated: 20/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Snincak Marek	**Assignee:**	Tonhauzer Martin
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Description

Adjust datased from task WIMNN-85 to final form used by NN.

Create NN MLP prototype (WIMNN-85)

[WIMNN-90] Create model Created: 20/Nov/19 Updated: 20/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Snincak Marek	**Assignee:**	Chreno Martin
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Description

Create NN model.

AC: NN that gives expected output

[WIMNN-83] Collect test VDR data from Rumlang Created: 15/Nov/19 Updated: 21/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Story	**Priority:**	Major
Reporter:	Bacik Zdenko	**Assignee:**	Unassigned
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Σ Remaining Estimate:	Not Specified	**Remaining Estimate:**	Not Specified
Σ Time Spent:	Not Specified	**Time Spent:**	Not Specified
Σ Original Estimate:	Not Specified	**Original Estimate:**	Not Specified

Sub-Tasks:

Key	Summary	Type	Status	Assignee
WIMNN-91	Collect data	Sub-task	In Review	Valastin Viktor

Business Priority:	Should have
Story Points:	3
Epic Link:	Collection
Sprint:	WIMNN Sprint 4

Description

As a user of WIM DL, I would like to collect testing data that will be used to analyze Neural Network. The IP address of the device:

Acceptance criteria:

- Testing data will be collected from the testing site.
- collect at least 10000 VDRs
- save data as a zip at google drive

Collect test VDR data from Rumlang (WIMNN-83)

[WIMNN-91] Collect data Created: 20/Nov/19 Updated: 22/Nov/19

Status:	In Review
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Snincak Marek	**Assignee:**	Valastin Viktor
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Description

Read story description.

Comments

Comment by Valastin Viktor [22/Nov/19]

How to run

```

node src/collector.js <url> -a <auth> -p <port> > out.log 2> out.err &

disown -h <pid>

```

If you want to stop the service

```

ps -ef | grep node

kill -9 <pid>

```

It's making logs to out.log file

[WIMNN-84] Prepare dataset for MLP RNN Created: 15/Nov/19 Updated: 21/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Story	**Priority:**	Major
Reporter:	Bacik Zdenko	**Assignee:**	Unassigned
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Σ Remaining Estimate:	Not Specified	**Remaining Estimate:**	Not Specified
Σ Time Spent:	Not Specified	**Time Spent:**	Not Specified
Σ Original Estimate:	Not Specified	**Original Estimate:**	Not Specified

Sub-Tasks:

Key	Summary	Type	Status	Assignee
WIMNN-87	Create dataset suitable as input for NN	Sub-task	To Do	
WIMNN-88	Analyse dataset and create visualisat...	Sub-task	To Do	

Business Priority:	Should have
Story Points:	5
Epic Link:	Processing
Sprint:	WIMNN Sprint 4

Description

I would like to prepare the dataset in a proper format for network training from collected VDR.
I would like to analyze the statistical attributes of the dataset.
I would like to perform data sanity checking.

Acceptance criteria

- tool which can transform collected VDR records to usable dataset format
- executable analysis of attributes

Note
Recommended script language is python3

Prepare dataset for MLP RNN (WIMNN-84)

[WIMNN-87] Create dataset suitable as input for NN Created: 20/Nov/19 Updated: 20/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Snincak Marek	**Assignee:**	Unassigned
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Task type:	implementation

Description

Dataset should be suitable as input to NN prototype. Consult structure with asignee(s) from story #85.

AC: dataset accepted for usage in task WIMNN-87

Prepare dataset for MLP RNN (WIMNN-84)

[WIMNN-88] Analyse dataset and create visualisations Created: 20/Nov/19 Updated: 20/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Sub-task	**Priority:**	Major
Reporter:	Snincak Marek	**Assignee:**	Unassigned
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Description

Create Jupyter notebook containing suitable data visualisations for created dataset.

[WIMNN-16] Implement FPT pre-processing - vehicle separation Created: 07/Oct/19 Updated: 21/Nov/19

Status:	To Do
Project:	WIM Neural Network
Component/s:	None
Fix Version/s:	None

Type:	Story	**Priority:**	Major
Reporter:	Bacik Zdenko	**Assignee:**	Unassigned
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original Estimate:	Not Specified		

Business Priority:	Should have
Story Points:	8
Epic Link:	Processing
Sprint:	WIMNN Sprint 4

Description

I would like to do research on how can we use it in the NN module.
I would like to implement identifying and separating FPT records per vehicle.

Acceptance criteria:

- Proposal how we should separate vehicles by force record
- Implementation of vehicle separation.