

astar-jira

roject: behametrics-learn

orted by: Priority descending, then Updated descending

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| T | Key | Status | Sprint | Created | Updated | Summary | Acceptance criteria | Description |
|--|---------|--|--------------|-----------|-----------|--|---|---|
|  | BEL-68 | DONE | BEL Sprint 2 | 29/Oct/18 | 05/Nov/18 | BEL-25 / Create repository for ML module | | Create repository with app |
|  | BEL-67 | DONE | BEL Sprint 2 | 27/Oct/18 | 27/Oct/18 | BEL-56 / Enable CORS and bulk insert on server-side | | Configure the server to ser includes Content-Type |
|  | BEL-82 | DONE | BEL Sprint 3 | 06/Nov/18 | 17/Nov/18 | BEL-79 / Compute acceleration and jerk for each axis | | For each mouse movement: Matej Končál suggest to w compute output (e. g. velo Use raw_logs.csv from http://www2.fiit.stuba.sk/~ data from one user and co |
|  | BEL-69 | DONE | BEL Sprint 2 | 29/Oct/18 | 05/Nov/18 | BEL-25 / Identify user sessions | | For each event identify ses: Matej Končál suggestion 2 time difference is less than modify time threshold Use raw_logs.csv from http://www2.fiit.stuba.sk/~ |
|  | BEL-70 | DONE | BEL Sprint 2 | 29/Oct/18 | 05/Nov/18 | BEL-25 / Compute velocity and acceleration | | For each mouse movement: Matej Končál suggest to w compute output (e. g. velo Use raw_logs.csv from http://www2.fiit.stuba.sk/~ data from one user and co |
|  | BEL-71 | DONE | BEL Sprint 2 | 29/Oct/18 | 05/Nov/18 | BEL-26 / Split events to segments | | For each event identify seg according to time interval, Matej Končál suggest to w identify split threshold by p Use raw_logs.csv from http://www2.fiit.stuba.sk/~ data from one user and co |
|  | BEL-18 | DONE | BEL Sprint 1 | 08/Oct/18 | 15/Oct/18 | BEL-17 / JIRA methodology | | Create JIRA methodology. |
|  | BEL-17 | DONE | BEL Sprint 1 | 08/Oct/18 | 22/Oct/18 | Methodologies | | Create all required method |
|  | BEL-50 | DONE | BEL Sprint 1 | 10/Oct/18 | 21/Oct/18 | BEL-23 / Tests and DI | | Find correct way to test py: pytest some dependency injector tests. |
|  | BEL-1 | DONE | | 02/Oct/18 | 15/Oct/18 | VM setup | VM is setup correctly (nginx, jira, confluence, firewall, product app, TLS) Website is created and deployed. | |
|  | BEL-4 | DONE | | 02/Oct/18 | 08/Oct/18 | BEL-1 / Setup webpage deploy to VM | | Gitlab-CI -> copy to VM. / create user, folder, nginx |
|  | BEL-187 | TO DO | BEL Sprint 6 | 19/Feb/19 | 19/Feb/19 | BEL-106 / Hard copy version number during build | | Application version in cont |
|  | BEL-32 | TO DO | BEL Sprint 8 | 09/Oct/18 | 19/Feb/19 | Visualize raw data | | |
|  | BEL-184 | TO DO | | 19/Feb/19 | 19/Feb/19 | Visualize leap motion data | | |
|  | BEL-183 | TO DO | | 19/Feb/19 | 19/Feb/19 | Visualize mobile data | | |
|  | BEL-102 | DONE | | 13/Nov/18 | 19/Feb/19 | Create demo implementation of authentication process | | As users of our product, we |
|  | BEL-186 | TO DO | BEL Sprint 7 | 19/Feb/19 | 19/Feb/19 | BEL-148 / Create pattern to draw | | |

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| | BEL-185 | TO DO | BEL Sprint 7 | 19/Feb/19 | 19/Feb/19 | BEL-148 / Collect test data | | |
| | BEL-161 | TO DO | | 17/Jan/19 | 19/Feb/19 | Make existing derived columns scalable w.r.t. number of inputs | Computed columns are visible in table with raw data. | A mouse has only one "input" Mobile devices have touch Leap Motion yields 3D coordinates (finger tips, finger joints), ea |
| | BEL-119 | TO DO | | 28/Nov/18 | 19/Feb/19 | Interactive Data Analysis | | As a researcher, I want to be able to perform the analysis of mouse data <ul style="list-style-type: none"> https://www.h2o.ai/product/ |
| | BEL-182 | TO DO | BEL Sprint 8 | 19/Feb/19 | 19/Feb/19 | Visualize mouse data | | |
| | BEL-170 | TO DO | BEL Sprint 6, BEL Sprint 7 | 23/Jan/19 | 19/Feb/19 | BEL-151 / Endpoint for result of authentication | | Request - Session id, user name, user with data from given session |
| | BEL-169 | TO DO | BEL Sprint 6, BEL Sprint 7 | 23/Jan/19 | 19/Feb/19 | BEL-151 / Endpoint for model training | | Request will contain user name and save it to DB |
| | BEL-151 | IN PROGRESS | BEL Sprint 6, BEL Sprint 7 | 20/Dec/18 | 19/Feb/19 | Store data for user authentication | | |
| | BEL-150 | DONE | BEL Sprint 6 | 20/Dec/18 | 19/Feb/19 | Collect data for user authentication | | As an experiment participant I want raw data to be collected |
| | BEL-168 | DONE | BEL Sprint 6 | 23/Jan/19 | 19/Feb/19 | BEL-150 / Create web app | | |
| | BEL-12 | TO DO | BEL Sprint 8 | 07/Oct/18 | 19/Feb/19 | Log device metadata | | As a researcher I want to log metadata about devices so that I can distinguish raw data by device Fields: <ul style="list-style-type: none"> type - mouse, mobile device device sensor - touch, accelerometer OS, version, model a unique device identifier |
| | BEL-61 | TO DO | BEL Sprint 8 | 23/Oct/18 | 19/Feb/19 | Make existing derived columns scalable w.r.t. number of axes | Computed columns are visible in table with raw data. | Mouse coordinates have velocity Mobile sensors such as accelerometer Leap Motion hand/finger position Each existing derived color <ul style="list-style-type: none"> velocity, acceleration, jerk <ul style="list-style-type: none"> separate for each axis magnitude - combined three axes: xy, yz, xz angular velocity - always applicable (for three axes) Tangential velocity is there |
| | BEL-33 | TO DO | | 09/Oct/18 | 19/Feb/19 | Visualize segments | | |
| | BEL-180 | TO DO | | 19/Feb/19 | 19/Feb/19 | Visualize raw data online | | |
| | BEL-181 | TO DO | | 19/Feb/19 | 19/Feb/19 | Visualize raw data and segments on the fly | | |

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| | BEL-90 | TO DO | | 07/Nov/18 | 19/Feb/19 | Tag extracted features | | <p>As a researcher I want to tag extracted feat so that I can better assess t modeling.</p> <p>Tags can help select releva Example:</p> <ul style="list-style-type: none"> • mean velocity - high obs distinctiveness (for e.g. e • start/end x, y - high con: authentication), barely u <p>For each tag, each claim sh (journal articles, papers).</p> |
| | BEL-177 | DONE | BEL Sprint 6, BEL Sprint 7 | 13/Feb/19 | 19/Feb/19 | BEL-151 / Endpoint to get username from session ID | | Create endpoint that will re |
| | BEL-176 | DONE | BEL Sprint 6, BEL Sprint 7 | 12/Feb/19 | 19/Feb/19 | BEL-149 / Update readme file | | |
| | BEL-179 | IN PROGRESS | BEL Sprint 7 | 18/Feb/19 | 18/Feb/19 | BEL-35 / Create function for plotting DET curve | | |
| | BEL-35 | IN PROGRESS | BEL Sprint 7 | 09/Oct/18 | 18/Feb/19 | Plot DET curve | | DET = detection error trad |
| | BEL-178 | IN PROGRESS | BEL Sprint 7 | 18/Feb/19 | 18/Feb/19 | BEL-34 / Create function for plotting ROC curve | | |
| | BEL-34 | IN PROGRESS | BEL Sprint 7 | 09/Oct/18 | 18/Feb/19 | Plot ROC curve | | ROC = receiver operating c |
| | BEL-146 | DONE | BEL Sprint 6, BEL Sprint 7 | 20/Dec/18 | 18/Feb/19 | BEL-144 / ml-module package | | |
| | BEL-144 | DONE | BEL Sprint 6, BEL Sprint 7 | 20/Dec/18 | 18/Feb/19 | Modules packaging | | Create NPM module for lo Create pip package (setup. |
| | BEL-162 | DONE | BEL Sprint 6 | 19/Jan/19 | 18/Feb/19 | Technical debt - ml module | | |
| | BEL-164 | DONE | BEL Sprint 6 | 19/Jan/19 | 18/Feb/19 | BEL-162 / Refactor naming schemes | | |
| | BEL-152 | IN PROGRESS | BEL Sprint 7 | 20/Dec/18 | 18/Feb/19 | User authentication | | |
| | BEL-145 | DONE | BEL Sprint 6, BEL Sprint 7 | 20/Dec/18 | 18/Feb/19 | BEL-144 / Logger package | | |
| | BEL-163 | DONE | BEL Sprint 6 | 19/Jan/19 | 18/Feb/19 | BEL-162 / Docker files cleanup | | |
| | BEL-175 | IN PROGRESS | BEL Sprint 6, BEL Sprint 7 | 12/Feb/19 | 12/Feb/19 | BEL-151 / Create demo app server | | |

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| | BEL-148 | TO DO | BEL Sprint 7 | 20/Dec/18 | 12/Feb/19 | Create scenario for demo | Stories for demo implementation Document containing more technical info about demo application. | Plan demo execution. |
| | BEL-11 | DONE | BEL Sprint 5 | 07/Oct/18 | 12/Feb/19 | Allow to choose frequency of logging from mobile devices | Logged data visible on server for various frequency settings | As a researcher I want to be able to set the in order to preserve website If chosen frequency exceed |
| | BEL-142 | DONE | BEL Sprint 5 | 19/Dec/18 | 12/Feb/19 | BEL-11 / Implement sensors frequency limiter | | |
| | BEL-149 | IN PROGRESS | BEL Sprint 6, BEL Sprint 7 | 20/Dec/18 | 12/Feb/19 | Technical debt - logger module | | |
| | BEL-108 | DONE | BEL Sprint 6 | 15/Nov/18 | 11/Feb/19 | BEL-106 / Repository structure | | atleast move docker-comp https://gitlab.com/tp-fasta |
| | BEL-106 | IN PROGRESS | BEL Sprint 6 | 15/Nov/18 | 11/Feb/19 | Technical debt - server module | | |
| | BEL-105 | TO DO | BEL Sprint 6 | 15/Nov/18 | 11/Feb/19 | BEL-106 / Implement logging in server module | | http://flask.pocoo.org/doc/ |
| | BEL-111 | TO DO | BEL Sprint 6 | 19/Nov/18 | 11/Feb/19 | BEL-106 / Error handling | | |
| | BEL-109 | TO DO | BEL Sprint 6 | 15/Nov/18 | 11/Feb/19 | BEL-106 / Documentation | | docstrings readme |
| | BEL-174 | IN PROGRESS | BEL Sprint 6, BEL Sprint 7 | 10/Feb/19 | 10/Feb/19 | BEL-149 / Sensors logging refactor | | |
| | BEL-173 | DONE | BEL Sprint 6, BEL Sprint 7 | 10/Feb/19 | 10/Feb/19 | BEL-149 / Touch events logging refactor | | |
| | BEL-172 | DONE | BEL Sprint 6, BEL Sprint 7 | 09/Feb/19 | 10/Feb/19 | BEL-149 / Module structure refactor | | |
| | BEL-147 | IN PROGRESS | | 20/Dec/18 | 09/Feb/19 | Internal improvements | | |
| | BEL-165 | DONE | BEL Sprint 6 | 23/Jan/19 | 03/Feb/19 | BEL-150 / Add possibility of adding custom data when initializing session | | |
| | BEL-167 | DONE | BEL Sprint 6 | 23/Jan/19 | 03/Feb/19 | BEL-150 / Create interface in logger | | 1. Init 2. Start logging 3. End logging 4. Terminate session |

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| <input checked="" type="checkbox"/> | BEL-171 | DONE | BEL Sprint 6 | 30/Jan/19 | 01/Feb/19 | Action required: Let's Encrypt certificate renewals | | <p>Hello, Action may be required to from breaking. If you already received a ssi information. Your Let's Encrypt client us a certificate in the past 60 addresses validated (max c team04-18.studenti.fiit.stu</p> <p>TLS-SNI-01 validation is re: temporarily on February 13 Any certificates issued befcafter their issuance date. You need to update your A method (HTTP-01, DNS-01 certificate renewals will bre expire. Our staging environment a to test whether your systera gainst staging: https://lets If you're a Certbot user, yo https://community.letsencr Our forum has many threa question has been answer https://community.letsencr For more information abou announcement: https://community.letsencr validation-support/74209 Thank you, Let's Encrypt Staff</p> |
| <input checked="" type="checkbox"/> | BEL-9 | TO DO | | 07/Oct/18 | 31/Jan/19 | CLONE - Log raw data from mobile devices | | <p>As a researcher I want to log raw data from so that I can use the data f Mobile devices = for now, Raw data to log:</p> <ul style="list-style-type: none"> touch screen <ul style="list-style-type: none"> touch size major and minor a touch pointer ID (t sensors (except accelero <ul style="list-style-type: none"> values timestamp <p>Some of the sensors (or fie this may help:</p> <ul style="list-style-type: none"> https://github.com/Mod <p>References:</p> <ul style="list-style-type: none"> https://developer.mozill |
| <input checked="" type="checkbox"/> | BEL-166 | DONE | BEL Sprint 6, BEL Sprint 7 | 23/Jan/19 | 25/Jan/19 | BEL-151 / Add arbitrary data to session information | | Add custom data (sent in r |
| <input checked="" type="checkbox"/> | BEL-128 | DONE | BEL Sprint 6 | 06/Dec/18 | 24/Jan/19 | Docker-compose - add networks | | |

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| | BEL-113 | DONE | BEL Sprint 4, BEL Sprint 5 | 20/Nov/18 | 23/Jan/19 | Log raw data from mobile devices | Show raw data in console | <p>As a researcher I want to log raw data from so that I can use the data from Mobile devices = for now, Raw data to log:</p> <ul style="list-style-type: none"> touch screen <ul style="list-style-type: none"> touch coordinates timestamp (as pre touch pressure (or device) touch events - sta touch identifier sensors (accelerometer, <ul style="list-style-type: none"> values (acceleratio timestamp <p>Need to solve infinite data Some of the sensors (or file this may help:</p> <ul style="list-style-type: none"> https://github.com/Mod References: https://developer.mozilla |
| | BEL-121 | DONE | BEL Sprint 4, BEL Sprint 5 | 02/Dec/18 | 23/Jan/19 | BEL-113 / Implement mobile events logging | | <p>Implementation of touch, a deviceorientation: https://v https://stackoverflow.com/data-from-javascript test: https://whatwebcandc</p> |
| | BEL-156 | TO DO | | 17/Jan/19 | 17/Jan/19 | Compute procedural angular columns | | <p>Columns to compute:</p> <ul style="list-style-type: none"> the columns specified in angular acceleration |
| | BEL-24 | TO DO | | 09/Oct/18 | 17/Jan/19 | Apply preprocessing methods to logged data during analysis | | |
| | BEL-103 | TO DO | | 13/Nov/18 | 17/Jan/19 | Extract features from frequency domain | | |
| | BEL-138 | TO DO | | 12/Dec/18 | 17/Jan/19 | Log keystroke data from PC keyboard on the web | | <p>As a researcher, I want to log keystroke data so that I can analyze keystroke Raw data:</p> <ul style="list-style-type: none"> timestamp key event type - key press (c active modifier key(s) (e. <ul style="list-style-type: none"> for a comprehensi ...anything else? <p>N.B.: Logging and sending logging should be perform</p> |
| | BEL-140 | TO DO | | 12/Dec/18 | 17/Jan/19 | Log keystroke data from virtual keyboard from mobile devices on the web | | <p>As a researcher, I want to log keystroke data so that I can analyze keystroke Raw data: the same keystroke</p> |
| | BEL-141 | TO DO | | 12/Dec/18 | 17/Jan/19 | Extract basic features from keystroke data | | <p>Basic features:</p> <ul style="list-style-type: none"> dwelt time flight time - all 4 variant: |
| | BEL-159 | TO DO | | 17/Jan/19 | 17/Jan/19 | Extract advanced features from keystroke data | | <p>Advanced features:</p> <ul style="list-style-type: none"> consider sequences of n consider different group characters, ...) consider removal of keys |
| | BEL-160 | TO DO | | 17/Jan/19 | 17/Jan/19 | Extract features from keystroke data specific for mobile devices | | <p>On mobile devices, we can the presence of touch screen Columns:</p> <ul style="list-style-type: none"> x- and y-offset from the all existing columns before <p>In the future it is expected in the application beside b</p> |

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| | BEL-139 | TO DO | | 12/Dec/18 | 17/Jan/19 | Provide support for logging and analyzing keystroke data | | As a researcher I want to log and analyze k so that I can experiment wi |
| | BEL-158 | TO DO | | 17/Jan/19 | 17/Jan/19 | Extract mouse click-related features | | The features are specified i |
| | BEL-157 | TO DO | | 17/Jan/19 | 17/Jan/19 | Extract holistic movement features | | The features are specified i |
| | BEL-154 | TO DO | | 17/Jan/19 | 17/Jan/19 | Apply advanced preprocessing methods to logged data during analysis | | |
| | BEL-136 | TO DO | | 11/Dec/18 | 17/Jan/19 | Verify timestamp accuracy of logged data | | |
| | BEL-155 | TO DO | | 17/Jan/19 | 17/Jan/19 | Update Jira methodology | | Add flow for: <ul style="list-style-type: none"> updating story in backlo |
| | BEL-117 | TO DO | | 27/Nov/18 | 17/Jan/19 | Split raw data to segments by difference in values of specified column(s) | | Examples: difference in vel Exceeding a specified thres What if the column value o |
| | BEL-104 | TO DO | | 14/Nov/18 | 17/Jan/19 | Specify hierarchy of criteria to split data to segments | | To achieve ultimate flexibili (e.g. lists of lists) to the seg This very likely replaces fea |
| | BEL-30 | DONE | BEL Sprint 4, BEL Sprint 5 | 09/Oct/18 | 15/Jan/19 | Scalability of user model w.r.t. number of users | DataFrame containing metrics for each provided setting | As a researcher I want to be able to assess in the model so that I can determine the Example: Suppose I have data from ' identification for 5, 10, 20, below e.g. 90% at 100 user identification on the web fr |
| | BEL-153 | TO DO | | 20/Dec/18 | 20/Dec/18 | Send remaining data on session end | | |
| | BEL-130 | TO DO | | 10/Dec/18 | 20/Dec/18 | Production demo for end users | | BEL-124 |
| | BEL-118 | DONE | | 27/Nov/18 | 20/Dec/18 | Create survey about demo architecture possibilities | | server -identifikuje sa session -stranka bude posielat eve -ked stranka da pokyn ze s -model ulozit a zo stranky stranka - dalsia aplikacia (i - vymysliet scenar ML module - package |
| | BEL-124 | DONE | BEL Sprint 5 | 04/Dec/18 | 20/Dec/18 | Create scenario for demo | Stories for demo implementation Document containing more technical info about demo application. | Plan demo execution. |
| | BEL-89 | DONE | BEL Sprint 4 | 07/Nov/18 | 20/Dec/18 | Integration of data processing phases into pipeline | Dataframe containing needed values. Calculated metrics from them. | Phases: <ul style="list-style-type: none"> derived column computi feature extraction user authentication wrap |
| | BEL-127 | TO DO | | 04/Dec/18 | 20/Dec/18 | Select technique for handling class imbalance for user authentication | | Default: No technique (do |
| | BEL-28 | TO DO | | 09/Oct/18 | 20/Dec/18 | Simplify training and testing of user models for experiments | | |
| | BEL-114 | TO DO | | 20/Nov/18 | 20/Dec/18 | CLONE - Integration of data processing phases into pipeline | | Phases: <ul style="list-style-type: none"> derived column computi feature extraction user authentication wrap scalability evaluation wr |
| | BEL-6 | TO DO | | 06/Oct/18 | 20/Dec/18 | Log and store raw data and events from websites | | |
| | BEL-143 | DONE | BEL Sprint 5 | 19/Dec/18 | 20/Dec/18 | BEL-124 / Create document with use cases | | |

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|  | BEL-123 | DONE | BEL Sprint 4, BEL Sprint 5 | 03/Dec/18 | 20/Dec/18 | BEL-30 / Function for scalability results | | |
|  | BEL-62 | DONE | BEL Sprint 5 | 23/Oct/18 | 20/Dec/18 | Apply predefined criteria for splitting raw data to segments | Dataframe containing segment id | Examples of split criteria: <ul style="list-style-type: none"> explicit events - for touc one segment (define sta |
|  | BEL-131 | DONE | BEL Sprint 5 | 11/Dec/18 | 20/Dec/18 | BEL-62 / Create function for custom segment splitting | | Create function that will sp 2 parameters - kwargs of b time before, after Start of segment is defined End of segment is defined |
|  | BEL-126 | DONE | BEL Sprint 5 | 04/Dec/18 | 15/Dec/18 | Presentation for MTS | | Create and prepare presen |
|  | BEL-125 | DONE | BEL Sprint 5 | 04/Dec/18 | 15/Dec/18 | Documentation - WS final | | Prepare documentation for |
|  | BEL-115 | DONE | BEL Sprint 4 | 26/Nov/18 | 13/Dec/18 | BEL-89 / Change implementation of authentication function | | function in ml-module - au should return dataframe w <ul style="list-style-type: none"> user_train (id) real value (y_test) predicted (y_pred) probability 0 probability 1 |
|  | BEL-116 | DONE | BEL Sprint 4 | 27/Nov/18 | 13/Dec/18 | BEL-89 / Create pipeline for callable object execution | | Create class/function, which also accepts parameters for |
|  | BEL-36 | DONE | BEL Sprint 4 | 09/Oct/18 | 13/Dec/18 | Plot curves for FAR, FRR and EER | Plot per each user | x axis - classifier threshold y axis - FAR curve, FRR cur This plot only applies to cl (probability, distance, etc.). If the threshold variable ha each threshold value. Otherwise, select an interv If there is no threshold for where the FAR becomes gr |
|  | BEL-122 | DONE | BEL Sprint 4 | 03/Dec/18 | 13/Dec/18 | BEL-36 / Create function for plotting FAR, FRR and EER | | |
|  | BEL-137 | DONE | BEL Sprint 5 | 11/Dec/18 | 13/Dec/18 | BEL-125 / Add info about session request to product docu | | |
|  | BEL-134 | DONE | BEL Sprint 5 | 11/Dec/18 | 13/Dec/18 | BEL-125 / Specify fields in data format - logger module In product documentation | | |
|  | BEL-132 | DONE | BEL Sprint 5 | 11/Dec/18 | 13/Dec/18 | BEL-125 / Specify generation of technical documentation in "Dokumentácia" | | |
|  | BEL-135 | DONE | BEL Sprint 5 | 11/Dec/18 | 13/Dec/18 | BEL-125 / Modify big picture - more specific | | |
|  | BEL-133 | DONE | BEL Sprint 5 | 11/Dec/18 | 12/Dec/18 | BEL-126 / Code review slide | | |

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| | BEL-129 | TO DO | | 06/Dec/18 | 06/Dec/18 | Classify sequences of samples | | As a researcher I want to classify sequence so that I can potentially im Normally, we classify a sing Sequence of samples could <ul style="list-style-type: none">n consecutive samplesconsecutive samples per To combine the classified r <ul style="list-style-type: none">majority voting for discrweighted sum for proba While binary classifiers are very well not be a cakewalk |
| | BEL-120 | DONE | | 28/Nov/18 | 04/Dec/18 | Investigate & fix webpage deployment | | https://gitlab.com/tp-fasta |
| | BEL-101 | DONE | BEL Sprint 3 | 12/Nov/18 | 03/Dec/18 | BEL-29 / Create pipeline for user authentication evaluation | | Create pipeline which train user. Subsequently comput |
| | BEL-85 | DONE | BEL Sprint 4 | 06/Nov/18 | 30/Nov/18 | Documentation | | |
| | BEL-31 | TO DO | | 09/Oct/18 | 28/Nov/18 | Visualization of raw data, events, preprocessed data and results | | |
| | BEL-37 | TO DO | | 09/Oct/18 | 28/Nov/18 | Add events to raw data visualization | | Events: <ul style="list-style-type: none">device-specific (mouse-ccustom Different types of events sh |
| | BEL-10 | DONE | | 07/Oct/18 | 27/Nov/18 | Allow to choose sensors to log from mobile devices | | As a researcher, I want to be able to easily s website so that I can obtain releva website performance. |
| | BEL-83 | DONE | BEL Sprint 3 | 06/Nov/18 | 27/Nov/18 | Survey of logging possibilities from mobile devices | | Analyse possibilities of logg Output should be stories ir document sensors not wor |
| | BEL-96 | DONE | BEL Sprint 4 | 12/Nov/18 | 27/Nov/18 | BEL-85 / Documentation of software engineering project | Documentation contains all described parts | Should cointan: <ul style="list-style-type: none">description of our projecour goals<ul style="list-style-type: none">what we want to aarchitecturedescriotion of every modtechnical documentator |
| | BEL-95 | DONE | BEL Sprint 4 | 12/Nov/18 | 27/Nov/18 | BEL-85 / Project management documentation | Documentation contain all described parts | Should cointain: <ul style="list-style-type: none">team members and theirmethodologiescompleted sprints<ul style="list-style-type: none">summarizations, rexports from JIRA |
| | BEL-99 | DONE | BEL Sprint 3 | 12/Nov/18 | 20/Nov/18 | BEL-29 / Write estimator which wraps classifier | | Write estimator which acce train this classifier. Output class labels for each sampl no data balancing by defau |
| | BEL-86 | DONE | BEL Sprint 3 | 07/Nov/18 | 20/Nov/18 | BEL-84 / Expose endpoint for data retrieval | | Should accept sessionId to |
| | BEL-110 | DONE | BEL Sprint 6 | 16/Nov/18 | 20/Nov/18 | BEL-106 / Add SAST checking | | https://gitlab.com/help/usc https://gitlab.com/help/ci/ e.g.: https://gitlab.com/tp-fasta |

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| | BEL-27 | DONE | BEL Sprint 3 | 09/Oct/18 | 20/Nov/18 | Extract features from segments | Dataframe containing user_id, session_id, segment and all new columns. | <ul style="list-style-type: none"> For each segment <ul style="list-style-type: none"> average min max median lower quartile upper quartile Inter quartile range Calculate those features by count of points - even Calculate duration, dista |
| | BEL-78 | DONE | BEL Sprint 3 | 05/Nov/18 | 20/Nov/18 | Adjust data to required format | Dataset in required form (columns - time, x, y, id_user) | As a researcher I want to in Suggestion: create function labels (time, x, y .. as we rec |
| | BEL-84 | DONE | BEL Sprint 3 | 06/Nov/18 | 20/Nov/18 | Generate dataset from our data | Downloadable csv from our server | As a researcher, I want to e further processing. |
| | BEL-29 | DONE | BEL Sprint 3 | 09/Oct/18 | 20/Nov/18 | User authentication | FP, FN rate for each user mean, std and median for those metrics per user | <p>Usually, for n users from ar</p> <ul style="list-style-type: none"> For each user: <ul style="list-style-type: none"> make user the own train model (binar test model report metrics from all u <ul style="list-style-type: none"> metrics for each u statistics - average Metrics "typical" metrics for bina domain-specific: FAR, FR User should be able to c |
| | BEL-79 | DONE | BEL Sprint 3 | 06/Nov/18 | 20/Nov/18 | Compute speed related columns from raw data | Computed columns are visible in table with raw data. | Compute additional column |
| <input checked="" type="checkbox"/> | BEL-72 | DONE | BEL Sprint 3 | 02/Nov/18 | 20/Nov/18 | Change demo implementation | built lib removed from repo master version of demo deployed on gitlab-pages | <p>Please stop building library Artifacts are available from https://docs.gitlab.com/ee/latest-artifacts Please state this informati</p> |
| | BEL-100 | DONE | BEL Sprint 3 | 12/Nov/18 | 20/Nov/18 | BEL-29 / Add function for metrics calculation | | Write function which comp predicted class labels as inq |
| | BEL-112 | DONE | BEL Sprint 3 | 19/Nov/18 | 20/Nov/18 | BEL-29 / Add functions to compute domain specific metrics | | Calculate metrics FAR, FRR, |
| | BEL-98 | DONE | BEL Sprint 3 | 12/Nov/18 | 20/Nov/18 | BEL-29 / Write transformer which adds label column for user | | Write transformer which cc Output of this transformer (1)/not belongs (0) to user |
| | BEL-97 | DONE | BEL Sprint 3 | 12/Nov/18 | 20/Nov/18 | BEL-78 / Create function for data column name preprocess | | Function should transform |
| | BEL-93 | DONE | BEL Sprint 3 | 10/Nov/18 | 20/Nov/18 | BEL-27 / Compute features for each segment | | <p>Write function to compute</p> <ul style="list-style-type: none"> average min max median lower quartile upper quartile inter quartile range duration start x start y end x end y <p>Matej Končál suggest to us groupby column name anc</p> |

| T | Key | Status | Sprint | Created | Updated | Summary | Acceptance criteria | Description |
|-------------------------------------|---------|--|--------------|-----------|-----------|--|--|--|
| | BEL-92 | DONE | BEL Sprint 3 | 10/Nov/18 | 20/Nov/18 | BEL-27 / Split segments to parts | | Write function to split each <ul style="list-style-type: none"> beginning - e.g. identifier < middle - e.g. identifier < end - e.g. identifier <seg Make function general, so be passed to function via p |
| | BEL-94 | DONE | BEL Sprint 3 | 10/Nov/18 | 20/Nov/18 | BEL-27 / Compute movement length for segment | | Write functions which acce <ul style="list-style-type: none"> trajectory length air distance from start to |
| | BEL-88 | DONE | BEL Sprint 3 | 07/Nov/18 | 19/Nov/18 | BEL-84 / Implement data conversion | | Implement data conversio |
| | BEL-91 | DONE | BEL Sprint 3 | 07/Nov/18 | 17/Nov/18 | BEL-84 / Find all possible columns | For given mongo query find all possible keys in json. | Currently we are storing th <pre style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;">{ "sessionId": 24, "timestamp": 2580.599, "eventType": "CUSTOM", "payload": {dynamic}, "sessionStartsAt": 15 }</pre> That dynamic part is probl before we can start doing i |
| | BEL-107 | TO DO | BEL Sprint 6 | 15/Nov/18 | 15/Nov/18 | BEL-106 / Improve logger detection | | https://gitlab.com/tp-fasta |
| | BEL-87 | DONE | BEL Sprint 3 | 07/Nov/18 | 07/Nov/18 | BEL-84 / Finalize data format | | get correct column names relates to BEL-78 |
| | BEL-56 | DONE | BEL Sprint 2 | 23/Oct/18 | 06/Nov/18 | Integrate logger with server | User is able to get data from session, identified by session id (shown on logger page) | As a researcher I want to store logged data |
| | BEL-52 | DONE | BEL Sprint 2 | 16/Oct/18 | 06/Nov/18 | Log Mouse Clicks - Advanced | On scroll event, data should contain 2 properties for vertical and horizontal scroll amount delta. Mouse button property should contain all mouse click combinations. | <ul style="list-style-type: none"> Logger should log also c Log scroll amount (horiz |
| | BEL-8 | DONE | BEL Sprint 2 | 06/Oct/18 | 06/Nov/18 | Log Custom Events | Logger should contain textfield and confirm button. After inserting custom event into textfield and button click the custom event is logged with all other attributes. | As a researcher I want to specify custom ev so that I can enhance pre-p Events could be defined in Examples: clicking or movir The number of fields to be should be logged (could b Logging custom events on |
| | BEL-25 | DONE | BEL Sprint 2 | 09/Oct/18 | 06/Nov/18 | Compute speed related columns from raw data | Computed columns are visible in table with raw data. | Compute additional colum |
| | BEL-26 | DONE | BEL Sprint 2 | 09/Oct/18 | 06/Nov/18 | Split raw data to time interval and silence segments | User is able to get data by session with segments criteria (time intervals - silence, combination) | Data should be tagged by combination of both. Crite |
| <input checked="" type="checkbox"/> | BEL-75 | DONE | BEL Sprint 2 | 02/Nov/18 | 06/Nov/18 | Prepare jupyter notebook for demo | | Create jupyter notebook <ol style="list-style-type: none"> load raw_logs.csv demonstrate usage c |
| | BEL-77 | DONE | BEL Sprint 2 | 05/Nov/18 | 05/Nov/18 | BEL-8 / Interface for custom events | | Allow user to programatic these events will have struc |

| T | Key | Status | Sprint | Created | Updated | Summary | Acceptance criteria | Description |
|---|--------|--------|--------------|-----------|-----------|--|---|---|
| | BEL-63 | DONE | BEL Sprint 2 | 23/Oct/18 | 05/Nov/18 | BEL-52 / Advanced mouse clicks implementation | | |
| | BEL-73 | DONE | BEL Sprint 2 | 02/Nov/18 | 05/Nov/18 | BEL-56 / Use session ID in logged data | | |
| | BEL-65 | DONE | BEL Sprint 2 | 25/Oct/18 | 05/Nov/18 | BEL-56 / Serve flask with gunicorn in production | | Configure gunicorn to run |
| | BEL-76 | DONE | BEL Sprint 2 | 03/Nov/18 | 05/Nov/18 | BEL-56 / Validate clients header | | http://flask.pocoo.org/docs/validate-custom-header-be |
| | BEL-66 | DONE | BEL Sprint 2 | 27/Oct/18 | 04/Nov/18 | BEL-56 / Posting logged data to server | | |
| | BEL-58 | DONE | BEL Sprint 2 | 23/Oct/18 | 04/Nov/18 | BEL-56 / Filter session data on server | | |
| | BEL-57 | DONE | BEL Sprint 2 | 23/Oct/18 | 03/Nov/18 | BEL-56 / UID generation | | |
| | BEL-60 | DONE | BEL Sprint 2 | 23/Oct/18 | 03/Nov/18 | BEL-56 / Model events in database | | ideas: document per session event = meta + payload |
| | BEL-59 | DONE | BEL Sprint 2 | 23/Oct/18 | 03/Nov/18 | BEL-56 / Save sesion id in events | | |
| | BEL-64 | DONE | BEL Sprint 2 | 25/Oct/18 | 02/Nov/18 | BEL-56 / Server CI/CD refactor | | <ul style="list-style-type: none"> fix docker image creatio replace '_' with '-' in doc |
| | BEL-74 | DONE | BEL Sprint 2 | 02/Nov/18 | 02/Nov/18 | BEL-8 / Define data structure | Specified data structure | Define data structure for c |
| | BEL-13 | DONE | | 07/Oct/18 | 23/Oct/18 | Log Session Metadata | | <p>As a researcher I want to log information a so that I can distinguish ra Fields:</p> <ul style="list-style-type: none"> session identifier user identifier |
| | BEL-53 | DONE | | 16/Oct/18 | 23/Oct/18 | Log User ID | | <p>As a researcher I want to log user ID during so that I can distinguish da How should we determine</p> |
| | BEL-20 | DONE | | 08/Oct/18 | 23/Oct/18 | Project kickoff | | |
| | BEL-23 | DONE | BEL Sprint 1 | 09/Oct/18 | 23/Oct/18 | Store Logged Data | test of saving data (example input - json) and display correct data on retrieval | <p>As a researcher I want to store logged data so that I can later analyze t</p> <ul style="list-style-type: none"> display stored data technologies |
| | BEL-54 | DONE | BEL Sprint 1 | 21/Oct/18 | 23/Oct/18 | BEL-23 / Deploy develop to VM | current develop branch deployed to VM | setup deployment /run doc setup nginx |
| | BEL-47 | DONE | BEL Sprint 1 | 09/Oct/18 | 22/Oct/18 | BEL-17 / Product deployment methodology | | |
| | BEL-21 | DONE | BEL Sprint 1 | 08/Oct/18 | 22/Oct/18 | BEL-17 / Methodology for code writing | Defined methodologies for code writing approved by all team members | Create methodologies for c |

| T | Key | Status | Sprint | Created | Updated | Summary | Acceptance criteria | Description |
|--|--------|--------|--------------|-----------|-----------|--|---|--|
|  | BEL-39 | DONE | BEL Sprint 1 | 09/Oct/18 | 22/Oct/18 | BEL-17 / Methodology for code review | | |
|  | BEL-43 | DONE | BEL Sprint 1 | 09/Oct/18 | 22/Oct/18 | BEL-23 / Integrate server with database | | Save data to database. |
|  | BEL-22 | DONE | BEL Sprint 1 | 08/Oct/18 | 22/Oct/18 | BEL-17 / Methodology for version control | Defined methodologies for version control approved by all team members | Create methodologies for v |
|  | BEL-42 | DONE | BEL Sprint 1 | 09/Oct/18 | 22/Oct/18 | BEL-23 / Backend server | | Select backend technology Expose endpoints for: 1. saving data 2. retrieving data Setup repository + CI (docl |
|  | BEL-38 | DONE | BEL Sprint 1 | 09/Oct/18 | 22/Oct/18 | Big picture | | https://team04-18.studenti |
|  | BEL-55 | DONE | BEL Sprint 1 | 22/Oct/18 | 22/Oct/18 | BEL-38 / Define goals of our project | | <ul style="list-style-type: none"> goals for this semester <ul style="list-style-type: none"> what needs to be visions for the next sem |
|  | BEL-46 | DONE | BEL Sprint 1 | 09/Oct/18 | 22/Oct/18 | BEL-38 / High-level product architecture | | |
|  | BEL-49 | DONE | BEL Sprint 1 | 09/Oct/18 | 21/Oct/18 | BEL-17 / Definition of ready | | |
|  | BEL-48 | DONE | BEL Sprint 1 | 09/Oct/18 | 21/Oct/18 | BEL-17 / Definition of done | | |
|  | BEL-19 | DONE | | 08/Oct/18 | 21/Oct/18 | Team setup | | |
|  | BEL-40 | DONE | BEL Sprint 1 | 09/Oct/18 | 21/Oct/18 | BEL-17 / Methodologies for documentation | | https://team04-18.studenti |
|  | BEL-7 | DONE | BEL Sprint 1 | 06/Oct/18 | 16/Oct/18 | Log Mouse Raw Data | List of log events in console | <p>As a researcher I want to log raw data from so that I can use the data f Data to log:</p> <ul style="list-style-type: none"> log name of the event coordinates (x, y) timestamp - as precise a event type - move, click <ul style="list-style-type: none"> in case of clicks, d <p>Additional comments:</p> <ul style="list-style-type: none"> browser and version con <ul style="list-style-type: none"> chrome- latest firefox- latest performance concerns - <p>References:</p> <ul style="list-style-type: none"> https://developer.mozilla https://developer.mozilla |
|  | BEL-16 | DONE | | 08/Oct/18 | 15/Oct/18 | BEL-19 / Webpage | Webpage meets all the minimum requirements. Webpage is available on team04-18.studenti.fiit.stuba.sk. | <p>Website minimum requir</p> <ul style="list-style-type: none"> team name information about team project plan current state of plan teammates roles links to documentation all interesting things cor |
|  | BEL-5 | DONE | | 06/Oct/18 | 15/Oct/18 | BEL-1 / Current server deployment | Test | setup CI for current server |

| T | Key | Status | Sprint | Created | Updated | Summary | Acceptance criteria | Description |
|--|--------|--|--------------|-----------|-----------|--|--|--|
|  | BEL-44 | DONE | BEL Sprint 1 | 09/Oct/18 | 14/Oct/18 | BEL-7 / Logging functionality | | Method/observable which timestamp, x, y, eventNam |
|  | BEL-45 | DONE | BEL Sprint 1 | 09/Oct/18 | 14/Oct/18 | BEL-7 / Verify logging | | Verify logging component firefox: latest chrome: latest ▪ > write all output to con |
|  | BEL-51 | DONE | | 13/Oct/18 | 14/Oct/18 | BEL-19 / Font webpage | Characters with diacritic are consistent with other characters | Characters with diacritics a |
|  | BEL-41 | DONE | BEL Sprint 1 | 09/Oct/18 | 12/Oct/18 | BEL-23 / Configure database system | | Setup MongoDB on our VM |
|  | BEL-14 | DONE | | 08/Oct/18 | 09/Oct/18 | BEL-19 / Assign roles | Every team member has assigned role | Assign roles to everyone in <ul style="list-style-type: none"> • scrum master - Michal V • documentation - Michae • code quality (code review) - Ján Vnenčák • server admin - Matej Ko • testing - Tomáš Jendrejč • implementation - Matúš <p>Discuss and figure out (late versioning, backend ...</p> |
|  | BEL-15 | DONE | | 08/Oct/18 | 08/Oct/18 | BEL-19 / Team logo | created logo of team | create logo of our team https://logomakr.com/6z0l https://team04-18.studenti |
|  | BEL-2 | DONE | | 02/Oct/18 | 06/Oct/18 | BEL-1 / Confluence | | Čakame na ramku: https://tfs.fiit.stuba.sk:8443/id=8857 Vyzera, ze to vie rozumne l https://hub.docker.com/r/e |
|  | BEL-3 | DONE | | 02/Oct/18 | 02/Oct/18 | BEL-1 / TLS | | Dufam, ze let's encrypt poj Nahodit do ngxinu. |