

fastar-jira

Project: behametrics-learn

Sorted by: Key descending, then Created descending, then Updated ascending, then Priority descending

1-99 of 99 as at: 13/Nov/18 00:40

T	Key	Status	Sprint	Created	Updated	Summary	Acceptance criteria	Description	Assignee
🔍	BEL-101	TO DO	BEL Sprint 3	12/Nov/18	12/Nov/18	BEL-29 / <a href="#">Create pipeline for user authentication evaluation</a>		Create pipeline which trains classifier for each user in dataset and return metrics for each user. Subsequently compute statistics from this metrics, e.g. average values, ...	Unassigned
🔍	BEL-100	TO DO	BEL Sprint 3	12/Nov/18	12/Nov/18	BEL-29 / <a href="#">Write transformer for metrics computation</a>		Write transformer which computes metrics. This transformer accepts actual class labels and predicted class labels as input.	Unassigned
🔍	BEL-99	TO DO	BEL Sprint 3	12/Nov/18	12/Nov/18	BEL-29 / <a href="#">Write estimator which wraps classifier</a>		Write estimator which accepts Classifier in params. If i call fit on this transformer, it will train this classifier. Output of predict function will return actual class labels and predicted class labels for each sample.	Unassigned
🔍	BEL-98	TO DO	BEL Sprint 3	12/Nov/18	12/Nov/18	BEL-29 / <a href="#">Write transformer which adds label column for user</a>		Write transformer which could be used in Pipeline and accepts <code>user_id</code> as parameter. Output of this transformer will contain label column, which represents if row belongs ( <b>1</b> )/not belongs ( <b>0</b> ) to user with <code>user_id</code> passed in parameter.	Unassigned
🔍	BEL-97	TO DO	BEL Sprint 3	12/Nov/18	12/Nov/18	BEL-78 / <a href="#">Create function for data column name preprocess</a>		Function should transform data column name to name that we require for ml module.	Tomáš Jendrejčák
🔍	BEL-96	IN PROGRESS	BEL Sprint 3	12/Nov/18	12/Nov/18	BEL-85 / <a href="#">Documentation of outcome</a>	Documentation contains all described parts	Should contain: <ul style="list-style-type: none"> <li>description of our project <ul style="list-style-type: none"> <li>what we want to achieve in our project</li> </ul> </li> <li>big picture <ul style="list-style-type: none"> <li>architecture</li> </ul> </li> <li>description of every module</li> <li>technical documentation</li> </ul>	Michaela Balážová
🔍	BEL-95	IN PROGRESS	BEL Sprint 3	12/Nov/18	12/Nov/18	BEL-85 / <a href="#">Project management documentation</a>	Documentation contain all described parts	Should contain: <ul style="list-style-type: none"> <li>team members and their assigned roles</li> <li>methodologies</li> <li>completed sprints <ul style="list-style-type: none"> <li>summarizations, retrospectives</li> </ul> </li> <li>exports from JIRA</li> </ul>	Michaela Balážová
🔍	BEL-94	IN PROGRESS	BEL Sprint 3	10/Nov/18	12/Nov/18	BEL-27 / <a href="#">Compute movement length for segment</a>		Write functions which accepts data from one segment/part of segment and compute: <ul style="list-style-type: none"> <li>trajectory length</li> <li>air distance from start to end</li> </ul>	Michal Manak
🔍	BEL-93	IN PROGRESS	BEL Sprint 3	10/Nov/18	12/Nov/18	BEL-27 / <a href="#">Compute features for each segment</a>		Write function to compute features for each segment <ul style="list-style-type: none"> <li>average</li> <li>min</li> <li>max</li> <li>median</li> <li>lower quartile</li> <li>upper quartile</li> <li>inter quartile range</li> <li>duration</li> <li>distance</li> <li>start x</li> <li>start y</li> <li>end x</li> <li>end y</li> </ul> <p>Matej Končál suggest to use <a href="#">pandas.groupby.agg</a>. Make groupby general, so i can change groupby column name and compute features e.g. for segment parts</p>	Matúš Kalafut
🔍	BEL-92	TO DO	BEL Sprint 3	10/Nov/18	12/Nov/18	BEL-27 / <a href="#">Split segments to parts</a>		Write function to split each segments to 3 parts (maybe more, if there is easy solution): <ul style="list-style-type: none"> <li>beginning - e.g. identifier &lt;seg_num&gt;_b</li> <li>middle - e.g. identifier &lt;seg_num&gt;_m</li> <li>end - e.g. identifier &lt;seg_num&gt;_e</li> </ul> Make function general, so it must be easy to change split criterion, e.g. split criterion will be passed to function via parameter	Michal Manak
🔍	BEL-91	IN PROGRESS	BEL Sprint 3	07/Nov/18	07/Nov/18	BEL-84 / <a href="#">Find all possible columns</a>	For given mongo query find all possible keys in json.	Currently we are storing this: <pre> {   "sessionId": 24,   "timeStamp": 2580.599999986589, </pre>	Matej Končál

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								<pre> "eventType": "CUSTOM", "payload": {dynamic}, "sessionStartsAt": 1541118820776 } </pre> <p>That dynamic part is problematic for us. We need to know all of those possible columns before we can start doing any processing.</p>	
	BEL-90	TO DO		07/Nov/18	07/Nov/18	Tag extracted features		<p>Purpose of tags: Determining the appropriateness of each feature for specific goals of user modeling. Can help select relevant features and consequently improve recognition results.</p> <p>Example:</p> <ul style="list-style-type: none"> <li>mean velocity - high observability (insecure, unsuitable for user authentication), good distinctiveness (for e.g. emotion recognition)</li> <li>start/end x, y - high consistency and distinctiveness for specific gestures (e.g. active authentication), barely usable for free movements (e.g. continuous authentication)</li> </ul> <p>For each tag, each claim should be supported by providing links to relevant sources (articles, papers).</p>	Unassigned
	BEL-89	TO DO		07/Nov/18	07/Nov/18	Integration of data preprocessing, feature extraction, user authentication and scalability evaluation with scikit-learn pipeline			Unassigned
	BEL-88	IN PROGRESS	BEL Sprint 3	07/Nov/18	12/Nov/18	BEL-84 / Implement data conversion		Implement data conversion from structure stored in database into CSV format.	Kamil Janeček
	BEL-87	DONE	BEL Sprint 3	07/Nov/18	07/Nov/18	BEL-84 / Finalize data format		get correct column names for CSV export	Matej Končál
	BEL-86	TO DO	BEL Sprint 3	07/Nov/18	07/Nov/18	BEL-84 / Expose endpoint for data retrieval		Should accept sessionId to get dataset for selected session	Unassigned
	BEL-85	IN PROGRESS	BEL Sprint 3	06/Nov/18	12/Nov/18	Documentation			Michaela Balážová
	BEL-84	IN PROGRESS	BEL Sprint 3	06/Nov/18	07/Nov/18	Generate dataset from our data	Downloadable csv from our server	As a researcher, I want to export data from server to csv file, so that I can use it for further processing.	Kamil Janeček
	BEL-83	TO DO	BEL Sprint 3	06/Nov/18	12/Nov/18	Survey of logging possibilities from mobile devices			Ján Vnenčák
	BEL-82	IN PROGRESS	BEL Sprint 3	06/Nov/18	12/Nov/18	BEL-79 / Compute acceleration and jerk for each axis		<p>For each mouse movement compute horizontal/vertical velocity and acceleration. Matej Končál suggest to write general function which accepts function in parameter and compute output (e. g. velocity) by passed function</p> <p>Use <code>raw_logs.csv</code> from <a href="http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html">http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html</a>. Select data from one user and count on them. We will do it per user session later.</p>	Tomáš Jendrejčák
	BEL-79	TO DO	BEL Sprint 3	06/Nov/18	06/Nov/18	Compute speed related columns from raw data	Computed columns are visible in table with raw data.	Compute additional columns (see picture in attachments) for data	Kamil Burda
	BEL-78	TO DO	BEL Sprint 3	05/Nov/18	06/Nov/18	Adjust data to required format	Dataset in required form (columns - time, x, y, id_user)	As a researcher I want to integrate external csv files to required format Suggestion: create function that will transform given data to DataFrame with specified labels (time, x, y .. as we require)	Unassigned
	BEL-77	DONE	BEL Sprint 2	05/Nov/18	05/Nov/18	BEL-8 / Interface for custom events		Allow user to programatically log custom events: these events will have structure defined in issue <a href="#">BEL-74</a>	Michal Manak
	BEL-76	DONE	BEL Sprint 2	03/Nov/18	05/Nov/18	BEL-56 / Validate clients header		<p><a href="http://flask.pocoo.org/docs/1.0/api/#flask.Flask.before_request">http://flask.pocoo.org/docs/1.0/api/#flask.Flask.before_request</a> validate custom header before every request</p> <pre> headers: {   'Content-Type': 'application/json',   'Logger': 'fastar/web-v0.1', }, </pre> <p>You, a minute ago • Uncommitted</p>	Matúš Kalafut
	BEL-75	DONE	BEL Sprint	02/Nov/18	06/Nov/18	Prepare jupyter notebook for demo		<p>Create jupyter notebook</p> <ol style="list-style-type: none"> <li>load <code>raw_logs.csv</code></li> </ol>	Michal Manak

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			2					2. demonstrate usage of functions implemented in <a href="#">BEL-25</a> and <a href="#">BEL-26</a>	
	BEL-74	<span style="color: green;">DONE</span>	BEL Sprint 2	02/Nov/18	02/Nov/18	BEL-8 / <a href="#">Define data structure</a>	Specified data structure	Define data structure for custom events (all events)	Kamil Janeček
	BEL-73	<span style="color: green;">DONE</span>	BEL Sprint 2	02/Nov/18	05/Nov/18	BEL-56 / <a href="#">Use session ID in logged data</a>			Kamil Janeček
	BEL-72	<span style="color: red;">TO DO</span>	BEL Sprint 3	02/Nov/18	12/Nov/18	<a href="#">Change demo implementation</a>	builted lib removed from repo readme linking to builded artifacts /master/ master version of demo deployed on gitlab-pages	Please stop building library into repository. Artifacts are available from CI. <a href="https://docs.gitlab.com/ee/user/project/pipelines/job_artifacts.html#downloading-the-latest-artifacts">https://docs.gitlab.com/ee/user/project/pipelines/job_artifacts.html#downloading-the-latest-artifacts</a> Please state this information in readme.	Ján Vnenčák
	BEL-71	<span style="color: green;">DONE</span>	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-26 / <a href="#">Split events to segments</a>		For each event identify segment to which event belongs to. Split can be determined according to time interval, silence time, ... <a href="#">Matej Končál</a> suggest to write general function which accepts function in parameter and identify split threshold by passed function Use <code>raw_logs.csv</code> from <a href="http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html">http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html</a> . Select data from one user and count on them. We will do it per user session later.	Matej Končál
	BEL-70	<span style="color: green;">DONE</span>	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-25 / <a href="#">Compute velocity and acceleration</a>		For each mouse movement compute horizontal/vertical velocity and acceleration. <a href="#">Matej Končál</a> suggest to write general function which accepts function in parameter and compute output (e. g. velocity) by passed function Use <code>raw_logs.csv</code> from <a href="http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html">http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html</a> . Select data from one user and count on them. We will do it per user session later.	Matej Končál
	BEL-69	<span style="color: green;">DONE</span>	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-25 / <a href="#">Identify user sessions</a>		For each event identify session in which event was logged. <a href="#">Matej Končál</a> suggestion 2 events from same user belong to same user session, if their time difference is less than 30min. But make it general, so i want to change 1 variable to modify time threshold Use <code>raw_logs.csv</code> from <a href="http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html">http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html</a>	Michaela Balážová
	BEL-68	<span style="color: green;">DONE</span>	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-25 / <a href="#">Create repository for ML module</a>		Create repository with appropriate name in <a href="https://gitlab.com/tp-fastar">https://gitlab.com/tp-fastar</a>	Matej Končál
	BEL-67	<span style="color: green;">DONE</span>	BEL Sprint 2	27/Oct/18	27/Oct/18	BEL-56 / <a href="#">Enable CORS and bulk insert on server-side</a>		Configure the server to send an Access-Control-Allow-Methods response header that includes Content-Type	Matúš Kalafut
	BEL-66	<span style="color: green;">DONE</span>	BEL Sprint 2	27/Oct/18	04/Nov/18	BEL-56 / <a href="#">Posting logged data to server</a>			Kamil Janeček
	BEL-65	<span style="color: green;">DONE</span>	BEL Sprint 2	25/Oct/18	05/Nov/18	BEL-56 / <a href="#">Serve flask with gunicorn in production</a>		Configure gunicorn to run flask app, when deployed to production/develop	Kamil Janeček
	BEL-64	<span style="color: green;">DONE</span>	BEL Sprint 2	25/Oct/18	02/Nov/18	BEL-56 / <a href="#">Server CI/CD refactor</a>		<ul style="list-style-type: none"> <li>fix docker image creation job - cache from latest-dev image when branch develop</li> <li>replace '.' with '-' in docker container name</li> </ul>	Kamil Janeček
	BEL-63	<span style="color: green;">DONE</span>	BEL Sprint 2	23/Oct/18	05/Nov/18	BEL-52 / <a href="#">Advanced mouse clicks implementation</a>			Kamil Janeček
	BEL-62	<span style="color: red;">TO DO</span>		23/Oct/18	07/Nov/18	<a href="#">Split raw data to segments</a>		<p>Examples of split criteria:</p> <ul style="list-style-type: none"> <li>explicit events - for touch screen, all data between touch-down and touch-up form one segment</li> <li>regular time intervals - for accelerometer data</li> <li>difference in values of a column <ul style="list-style-type: none"> <li>e.g. rapid change in velocity -&gt; new segment</li> </ul> </li> </ul>	Unassigned
	BEL-61	<span style="color: red;">TO DO</span>		23/Oct/18	07/Nov/18	<a href="#">Compute derived columns from raw data</a>	Computed columns are visible in table with raw data.	Compute additional derived columns from raw data as per the IWC 2018 article that are not implemented yet. Make sure the columns are scalable with	Unassigned

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								regards to: <ul style="list-style-type: none"> <li>the number of axes (e.g. mouse coordinates have two axes, accelerometer has three). Examples: velocity for each axis, velocity magnitude for each combination of axes (pairs, triplets, ...), angular velocity for each pair of axes.</li> <li>the number of "sources" - a mouse has only one source of coordinates, Leap Motion yields 3D coordinates for a multitude of points on hands (palm, wrist, fingertips, finger joints).</li> </ul>	
	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	Unassigned
	BEL-59	DONE	BEL Sprint 2	23/Oct/18	03/Nov/18	BEL-56 / Save sesion id in events			Unassigned
	BEL-58	DONE	BEL Sprint 2	23/Oct/18	04/Nov/18	BEL-56 / Filter session data on server			Matej Končál
	BEL-57	DONE	BEL Sprint 2	23/Oct/18	03/Nov/18	BEL-56 / UID generation			Matej Končál
	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 per session, so that I can see the data per session.	Kamil Janeček
	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"> <li>goals for this semester                             <ul style="list-style-type: none"> <li>what needs to be done in the end of winter semester (approximately 17.12.)</li> </ul> </li> <li>visions for the next semester</li> </ul>	Michal Manak
	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 docker container/ setup nginx	Kamil Janeček
	BEL-53	DONE		16/Oct/18	23/Oct/18	Log User ID		As a researcher I want to log user ID during experiments so that I can distinguish data from multiple participants How should we determine the user ID?	Unassigned
	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"> <li>Logger should log also combinations of mouse clicks (all 5 mouse buttons)</li> <li>Log scroll amount (horizontal, vertical)</li> </ul>	Ján Vnenčák
	BEL-51	DONE		13/Oct/18	14/Oct/18	BEL-19 / Font webpage	Characters with diacritic are consistent with other characters	Characters with diacritics are not consistent with other characters. Change it.	Michal Manak
	BEL-50	DONE	BEL Sprint 1	10/Oct/18	21/Oct/18	BEL-23 / Tests and DI		Find correct way to test python Flask applications. pytest some dependency injection or correct way to mock modules so we can easily make unit tests.	Kamil Janeček
	BEL-49	DONE	BEL Sprint 1	09/Oct/18	21/Oct/18	BEL-17 / Definition of ready			Kamil Janeček
	BEL-48	DONE	BEL Sprint 1	09/Oct/18	21/Oct/18	BEL-17 / Definition of done			Michal Manak
	BEL-47	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-17 / Product deployment methodology			Michal Manak
	BEL-46	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-38 / High-level product architecture			Michal Manak
	BEL-45	DONE	BEL Sprint 1	09/Oct/18	14/Oct/18	BEL-7 / Verify logging		Verify logging component in firefox: latest chrome: latest	Ján Vnenčák
	BEL-44	DONE	BEL Sprint 1	09/Oct/18	14/Oct/18	BEL-7 / Logging functionality		<ul style="list-style-type: none"> <li>&gt; write all output to console</li> </ul> Method/observable which will return required data: timestamp, x, y, eventName	Kamil Janeček

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	BEL-43	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-23 / Integrate server with database		Save data to database.	Michaela Balážová
	BEL-42	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-23 / Backend server		Select backend technology (language, framework) for server. Expose endpoints for: 1. saving data 2. retrieving data  Setup repository + CI (dockerize) + auto deploy to our VM	Michaela Balážová
	BEL-41	DONE	BEL Sprint 1	09/Oct/18	12/Oct/18	BEL-23 / Configure database system		Setup MongoDB on our VM. (docker container, secured instance, start on startup)	Kamil Janeček
	BEL-40	DONE	BEL Sprint 1	09/Oct/18	21/Oct/18	BEL-17 / Methodologies for documentation		<a href="https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Documentation">https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Documentation</a>	Kamil Janeček
	BEL-39	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-17 / Methodology for code review			Matúš Kalafut
	BEL-38	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	Big picture		<a href="https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Big+picture">https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Big+picture</a>	Michal Manak
	BEL-37	TO DO		09/Oct/18	06/Nov/18	Add events to raw data visualization		Events: <ul style="list-style-type: none"><li>device-specific (mouse-down, ...)</li><li>custom</li></ul> Different types of events should be marked differently.	Unassigned
	BEL-36	TO DO		09/Oct/18	06/Nov/18	Plot curves for FAR, FRR and EER		x axis - classifier threshold y axis - FAR curve, FRR curve, EER (intersection of FAR and FRR) This plot only applies to classifiers yielding a continuous value on the output (probability, distance, etc.). If the threshold variable has a finite number of possible values, calculate FAR and FRR for each threshold value. Otherwise, select an interval to choose threshold values from and calculate FAR and FRR. If there is no threshold for which FAR = FRR, calculate EER from the two adjacent points where the FAR becomes greater than FRR or vice versa.	Unassigned
	BEL-35	TO DO		09/Oct/18	06/Nov/18	Plot DET curve		DET = detection error trade-off	Unassigned
	BEL-34	TO DO		09/Oct/18	06/Nov/18	Plot ROC curve		ROC = receiver operating characteristic	Unassigned
	BEL-33	TO DO		09/Oct/18	07/Nov/18	Visualization of segments			Unassigned
	BEL-32	TO DO		09/Oct/18	09/Oct/18	Visualization of raw data			Unassigned
	BEL-31	TO DO		09/Oct/18	09/Oct/18	Visualization of raw data, events, preprocessed data and results			Unassigned
	BEL-30	TO DO		09/Oct/18	06/Nov/18	Scalability of user model w.r.t. number of users		As a researcher I want to be able to assess the metrics for classification results w.r.t. the number of users in the model so that I can determine the scalability of the behavioral biometric user model. Example: Suppose I have data from 1000 users, I want to compute the accuracy of user identification for 5, 10, 20, 50, ... up to 1000 users. If the identification accuracy drops below e.g. 90% at 100 users, I can proclaim that my method is not usable for identification on the web for UX purposes for that many users.	Unassigned
	BEL-29	TO DO	BEL Sprint 3	09/Oct/18	06/Nov/18	User authentication	FP, FN rate for each user  mean, std and median for those metrics per user	Usually, for $n$ users from an experiment, user authentication is computed as follows:  • For each user: ◦ make user the owner (positive class), the others impostors (negative class) ◦ train model (binary classifier, anomaly detector) ◦ test model • report metrics from all users ◦ metrics for each user individually ◦ statistics - average, std.  Metrics	Unassigned

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								<ul style="list-style-type: none"> <li>"typical" metrics for binary classifiers: accuracy, precision, recall, F1-score</li> <li>domain-specific: FAR, FRR, EER</li> <li>User should be able to chose reported metrics</li> </ul>	
	BEL-28	TO DO		09/Oct/18	09/Oct/18	Simplify training and testing of user models for experiments			Unassigned
	BEL-27	TO DO	BEL Sprint 3	09/Oct/18	06/Nov/18	Extract features from segments	Dataframe containing user_id, session_id, segment and all new columns.	<ul style="list-style-type: none"> <li>For each segment                             <ul style="list-style-type: none"> <li>average</li> <li>min</li> <li>max</li> <li>median</li> <li>lower quartile</li> <li>upper quartile</li> <li>Inter quartile range</li> </ul> </li> <li>Calculate those features also for parts (beginning, middle, end) of segment (Defined by count of points - events, custom chosing)</li> <li>Calculate duration, distance, start and end x,y, trajectory length</li> </ul>	Unassigned
	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 segment according to its time interval, silence time, or combination of both. Criteria should be maximally variable.	Kamil Burda
	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 columns (see picture in attachments) for data	Kamil Burda
	BEL-24	TO DO		09/Oct/18	06/Nov/18	Apply preprocessing methods to logged data during analysis			Unassigned
	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	As a researcher I want to store logged data from the web so that I can later analyze the data at any given time. <ul style="list-style-type: none"> <li>display stored data</li> <li>technologies</li> </ul>	Kamil Burda
	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 version control	Matúš Kalafut
	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 code writing	Michal Manak
	BEL-20	DONE		08/Oct/18	23/Oct/18	Project kickoff			Unassigned
	BEL-19	DONE		08/Oct/18	21/Oct/18	Team setup			Tomáš Jendrejčák
	BEL-18	DONE	BEL Sprint 1	08/Oct/18	15/Oct/18	BEL-17 / JIRA methodology		Create JIRA methodoogy.	Kamil Janeček
	BEL-17	DONE	BEL Sprint 1	08/Oct/18	22/Oct/18	Methodologies		Create all required methodologies.	Michal Manak
	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.	<b>Website mininum requirements:</b> <ul style="list-style-type: none"> <li>team name</li> <li>information about teammates</li> <li>project plan</li> <li>current state of plan</li> <li>teammates roles</li> <li>links to documentation and meetings records</li> <li>all interesting things connected with the project and the project workflow</li> </ul>	Ján Vnenčák
	BEL-15	DONE		08/Oct/18	08/Oct/18	BEL-19 / Team logo	created logo of team	create logo of our team <a href="https://logomakr.com/6z0HoX">https://logomakr.com/6z0HoX</a> <a href="https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Team+identity">https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Team+identity</a>	Michaela Balážová
	BEL-14	DONE		08/Oct/18	09/Oct/18	BEL-19 / Assign roles	Every team member has assigned role	Assign roles to everyone in team: <ul style="list-style-type: none"> <li>scrum master - Michal Manak</li> <li>documentation - Michaela Balážová</li> <li>code quality (code review, review of created tests) - Kamil Janeček</li> <li>frontend - Ján Vnenčák</li> <li>server admin - Matej Končál</li> <li>testing - Tomáš Jendrejčák</li> </ul>	Michaela Balážová

T	Key	Status	Sprint	Created	Updated	Summary	Acceptance criteria	Description	Assignee
								<ul style="list-style-type: none"> <li>implementation - <a href="#">Matúš Kalafut</a></li> </ul> <p>Discuss and figure out (later, during project) how to assign another roles like developer, versioning, backend ...</p>	
	BEL-13	<span style="background-color: #d4edda; border: 1px solid #c3e6cb; border-radius: 3px; padding: 2px;">DONE</span>		07/Oct/18	23/Oct/18	<a href="#">Log Session Metadata</a>		<p>As a researcher I want to log information about the current session so that I can distinguish raw data from multiple sessions.</p> <p>Fields:</p> <ul style="list-style-type: none"> <li>session identifier</li> <li>user identifier</li> </ul>	<i>Unassigned</i>
	BEL-12	<span style="background-color: #fff3cd; border: 1px solid #ffeeba; border-radius: 3px; padding: 2px;">TO DO</span>		07/Oct/18	07/Nov/18	<a href="#">Log device metadata</a>		<p>As a researcher I want to log metadata about the currently used device for browsing so that I can distinguish raw data from different devices.</p> <p>Fields:</p> <ul style="list-style-type: none"> <li>type - mouse, mobile device, ...</li> <li>device sensor - touch, accelerometer, ... (undefined if type is mouse)</li> <li>OS, version, model</li> <li>a unique device identifier</li> </ul>	<i>Unassigned</i>
	BEL-11	<span style="background-color: #fff3cd; border: 1px solid #ffeeba; border-radius: 3px; padding: 2px;">TO DO</span>		07/Oct/18	07/Nov/18	<a href="#">Allow to choose frequency of logging from mobile devices</a>		<p>As a researcher I want to be able to set the frequency of logging of individual sensors in order to preserve website performance while logging.</p>	<i>Unassigned</i>
	BEL-10	<span style="background-color: #fff3cd; border: 1px solid #ffeeba; border-radius: 3px; padding: 2px;">TO DO</span>		07/Oct/18	07/Nov/18	<a href="#">Allow to choose sensors to log from mobile devices</a>		<p>As a researcher, I want to be able to easily select which sensors from mobile devices are logged from a website so that I can obtain relevant data up front and potentially prevent degradation of the website performance.</p>	<i>Unassigned</i>
	BEL-9	<span style="background-color: #fff3cd; border: 1px solid #ffeeba; border-radius: 3px; padding: 2px;">TO DO</span>		07/Oct/18	07/Nov/18	<a href="#">Log raw data from mobile devices</a>		<p>As a researcher I want to log raw data from mobile devices on the web so that I can use the data for further analysis. Mobile devices = for now, smartphones and tablets</p> <p>Raw data to log:</p> <ul style="list-style-type: none"> <li>touch screen                             <ul style="list-style-type: none"> <li>touch coordinates (x, y)</li> <li>timestamp (as precise as possible)</li> <li>touch size, touch pressure (only one of these fields returns valid values, depending on the device)</li> <li>major and minor axis of touch area</li> <li>touch events - down, move, up, ...</li> <li>do not forget to support multi-touch gestures</li> </ul> </li> <li>sensors (accelerometer, gyroscope, ...)                             <ul style="list-style-type: none"> <li>values (e.g. acceleration in x, y, z)</li> <li>timestamp</li> </ul> </li> </ul> <p>Some of the sensors (or fields therein) may not be supported on all browsers/devices, this may help:</p> <ul style="list-style-type: none"> <li><a href="https://github.com/Modernizr/Modernizr">https://github.com/Modernizr/Modernizr</a></li> </ul> <p>References:</p> <ul style="list-style-type: none"> <li><a href="https://developer.mozilla.org/en-US/docs/Web/API/Touch_events/Using_Touch_Events">https://developer.mozilla.org/en-US/docs/Web/API/Touch_events/Using_Touch_Events</a></li> </ul>	<i>Unassigned</i>
	BEL-8	<span style="background-color: #d4edda; border: 1px solid #c3e6cb; border-radius: 3px; padding: 2px;">DONE</span>	BEL Sprint 2	06/Oct/18	06/Nov/18	<a href="#">Log Custom Events</a>	<p>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.</p>	<p>As a researcher I want to specify custom events to be logged so that I can enhance pre-processing of raw data.</p> <p>Events could be defined in the code. Examples: clicking or moving through a specific object</p> <p>The number of fields to be logged is variable. At the minimum, the name of the event should be logged (could be anything). Logging custom events on the web should be possible on any device.</p>	<a href="#">Kamil Burda</a>
	BEL-7	<span style="background-color: #d4edda; border: 1px solid #c3e6cb; border-radius: 3px; padding: 2px;">DONE</span>	BEL Sprint 1	06/Oct/18	16/Oct/18	<a href="#">Log Mouse Raw Data</a>	List of log events in console	<p>As a researcher I want to log raw data from computer mice on the web so that I can use the data for further analysis.</p> <p>Data to log:</p>	<a href="#">Kamil Burda</a>

T	Key	Status	Sprint	Created	Updated	Summary	Acceptance criteria	Description	Assignee
								<ul style="list-style-type: none"> <li>• <b>log name of the event + generic data (x, y, timestamp)</b></li> <li>• coordinates (x, y)</li> <li>• timestamp - as precise as possible</li> <li>• event type - move, click (left, middle, right, ...), scroll, ... <ul style="list-style-type: none"> <li>◦ in case of clicks, distinguish mouse-down and mouse-up</li> </ul> </li> </ul> <p>Additional comments:</p> <ul style="list-style-type: none"> <li>• browser and version compatibility - not really sure, as many as possible, I guess <ul style="list-style-type: none"> <li>◦ chrome- latest</li> <li>◦ firefox- latest</li> </ul> </li> <li>• performance concerns - not important at the moment</li> </ul> <p>References:</p> <ul style="list-style-type: none"> <li>• <a href="https://developer.mozilla.org/en-US/docs/Web/API/MouseEvent/buttons">https://developer.mozilla.org/en-US/docs/Web/API/MouseEvent/buttons</a></li> <li>• <a href="https://developer.mozilla.org/en-US/docs/Web/Events/wheel">https://developer.mozilla.org/en-US/docs/Web/Events/wheel</a></li> </ul>	
	BEL-6	TO DO		06/Oct/18	06/Nov/18	Log and store raw data and events from websites			Unassigned
	BEL-5	DONE		06/Oct/18	15/Oct/18	BEL-1 / Current server deployment	Test	setup CI for current server deployment	Matej Končál
	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 settings/	Michal Manak
	BEL-3	DONE		02/Oct/18	02/Oct/18	BEL-1 / TLS		Dufam, ze let's encrypt pojde aj ked nemame vlastnictvo domeny. Nahodit do nginxu.	Matej Končál
	BEL-2	DONE		02/Oct/18	06/Oct/18	BEL-1 / Confluence		<p>Cakame na ramku:  <a href="https://tfs.fiit.stuba.sk:8443/tfs/StudentsProjects/TP%20Virtual%20Machines/_workitems?id=8857">https://tfs.fiit.stuba.sk:8443/tfs/StudentsProjects/TP%20Virtual%20Machines/_workitems?id=8857</a></p> <p>Vyzera, ze to vie rozumne bezat z dockeru:  <a href="https://hub.docker.com/r/atlassian/confluence-server/">https://hub.docker.com/r/atlassian/confluence-server/</a></p>	Kamil Janeček
	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.		Kamil Janeček