fastar-jira

Project: behametrics-learn
Sorted by: Priority descending, then Updated descending
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T	Key	Status	Sprint	Created	Updated	Summary	Acceptance criteria	Description	Assignee
🔲	BEL-68	DONE	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-25 / Create repository for ML module		Create repository with appropriate name in https://gitlab.com/tp-fastar	Matej Končál
🔲	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 send an Access-Control-Allow-Methods response header that includes Content-Type	Matúš Kalafut
🔲	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 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 Use raw_logs.csv from http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html . Select data from one user and count on them. We will do it per user session later.	Michal Manak
🔲	BEL-69	DONE	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-25 / Identify user sessions		For each event identify session in which event was logged. Matej Končál 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 raw_logs.csv from http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html	Michael Balážov
🔲	BEL-70	DONE	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-25 / Compute velocity and acceleration		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 Use raw_logs.csv from http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html . Select data from one user and count on them. We will do it per user session later.	Matej Končál
🔲	BEL-71	DONE	BEL Sprint 2	29/Oct/18	05/Nov/18	BEL-26 / Split events to segments		For each event identify segment to which event belongs to. Split can be determined according to time interval, silence time, ... Matej Končál suggest to write general function which accepts function in parameter and identify split threshold by passed function Use raw_logs.csv from http://www2.fiit.stuba.sk/~kratky/biometrics/data/web_ident_mouse/index.html . Select data from one user and count on them. We will do it per user session later.	Matej Končál
🔲	BEL-18	DONE	BEL Sprint 1	08/Oct/18	15/Oct/18	BEL-17 / JIRA methodology		Create JIRA methodoogy.	Kamil Janeče
💡	BEL-17	DONE	BEL Sprint 1	08/Oct/18	22/Oct/18	Methodologies		Create all required methodologies.	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 Janeče

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🔶	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 Janeče
🔷	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-11	TO DO		07/Oct/18	27/Nov/18	Allow to choose frequency of logging from mobile devices		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.	Unassi
🔖	BEL-35	TO DO		09/Oct/18	27/Nov/18	Plot DET curve		DET = detection error trade-off	Unassi
🔖	BEL-34	TO DO		09/Oct/18	27/Nov/18	Plot ROC curve		ROC = receiver operating characteristic	Unassi
✅	BEL-118	TO DO		27/Nov/18	27/Nov/18	Create survey about demo architecture possibilities		server -identifikuje sa session -stranka bude posielat eventy -ked stranka da pokyn ze su data vyzbierane, server bude vediet get a natrenovat -model ulozit a zo stranky prijmat data a klasifikovat stranka - dalsia aplikacia (2 mody - zbieranie, test: 2 fazy) - vymysliet scenar ML module - package	Unassi
🔖	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 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.	Unassi
🔖	BEL-37	TO DO		09/Oct/18	27/Nov/18	Add events to raw data visualization		Events: • device-specific (mouse-down, ...) • custom Different types of events should be marked differently.	Unassi
🔖	BEL-102	TO DO		13/Nov/18	27/Nov/18	Create demo implementation of authentication process		As users of our product, we want to see our product in action.	Unassi
✅	BEL-83	DONE	BEL Sprint 3	06/Nov/18	27/Nov/18	Survey of logging possibilities from mobile devices		Analyse possibilities of logging data from mobile devices sensors. Output should be stories in backlog with adequate description. document sensors not working ..	Ján Vne
🔖	BEL-62	TO DO		23/Oct/18	27/Nov/18	Apply predefined criteria for splitting raw data to segments	Dataframe containing segment id	Examples of split criteria: • explicit events - for touch screen, all data between touch-down and touch-up form one segment (define start and end criteria by defining values of desired rows)	Michal Manak

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🏷	BEL-117	TO DO		27/Nov/18	27/Nov/18	CLONE - Apply predefined criteria for splitting raw data to segments		Examples of split criteria: • difference in values of a column ◦ e.g. rapid change in velocity -> new segment	Unassi
⚡	BEL-24	TO DO		09/Oct/18	27/Nov/18	Apply preprocessing methods to logged data during analysis			Unassi
🏷	BEL-9	TO DO		07/Oct/18	27/Nov/18	Log raw data from mobile devices		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 Raw data to log: • touch screen ◦ touch size ◦ major and minor axis of touch area ◦ do not forget to support multi-touch gestures • sensors (except of accelerometer, gyroscope) ◦ values (e.g. acceleration in x, y. z) ◦ timestamp Some of the sensors (or fields therein) may not be supported on all browsers/devices, this may help: • https://github.com/Modernizr/Modernizr References: • https://developer.mozilla.org/en-US/docs/Web/API/Touch_events/Using_Touch_Events	Unassi
🗂	BEL-116	TO DO	BEL Sprint 4	27/Nov/18	27/Nov/18	BEL-89 / Create pipeline for callable object execution		Create class/function, which accepts list of callable object and executes them. Pipeline also accepts parameters for this objects and set them to object before execution.	Unassi

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🔖	BEL-113	IN PROGRESS	BEL Sprint 4	20/Nov/18	27/Nov/18	Log raw data from mobile devices	Show raw data in console	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 Raw data to log: • touch screen ○ touch coordinates (x, y) ○ timestamp (as precise as possible) ○ touch pressure (only one of these fields returns valid values, depending on the device) ○ touch events - start, end, move ○ touch identifier • sensors (accelerometer, gyroscope) ○ values (acceleration on x, y. z in m/s2, orientation on x, y, z in degrees) ○ timestamp Need to solve infinite data stream from sensors ! Some of the sensors (or fields therein) may not be supported on all browsers/devices, this may help: • https://github.com/Modernizr/Modernizr References: • https://developer.mozilla.org/en-US/docs/Web/API/Touch_events/Using_Touch_Events	Ján Vne
🔖	BEL-36	TO DO	BEL Sprint 4	09/Oct/18	27/Nov/18	Plot curves for FAR, FRR and EER	Plot per each user	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.	Tomáš Jendrej
📋	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: • description of our project • our goals ○ what we want to achieve in our project • big picture ○ architecture • descrition of every module • technical documentation	Michal Manak
📋	BEL-95	DONE	BEL Sprint 4	12/Nov/18	27/Nov/18	BEL-85 / Project management documentation	Documentation contain all described parts	Should cointain: • team members and their assigned roles • methodologies • completed sprints ○ summarizations, rectospetives • exports from JIRA	Michal Manak

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🔖	BEL-89	IN PROGRESS	BEL Sprint 4	07/Nov/18	27/Nov/18	Integration of data processing phases into pipeline	Dataframe containing needed values. Calculated metrics from them.	Phases: • derived column computation • feature extraction • user authentication wrapper	Matej Končál
📋	BEL-115	TO DO	BEL Sprint 4	26/Nov/18	26/Nov/18	BEL-89 / Change implementation of authentication function		function in ml-module - authentication_metrics should return dataframe with 5 columns: • user_train (id) • real value (y_test) • predicted (y_pred) • probability 0 • probability 1	Michael Balážov
💡	BEL-85	READY FOR REVIEW	BEL Sprint 4	06/Nov/18	26/Nov/18	Documentation			Michael Balážov
🔖	BEL-30	TO DO	BEL Sprint 4	09/Oct/18	20/Nov/18	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 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.	Michal Manak
🔖	BEL-114	TO DO		20/Nov/18	20/Nov/18	Integration of data processing phases into pipeline		Phases: • derived column computation • feature extraction • user authentication wrapper • scalability evaluation wrapper	Unassig
⚡	BEL-6	TO DO		06/Oct/18	20/Nov/18	Log and store raw data and events from websites			Unassig
📋	BEL-99	DONE	BEL Sprint 3	12/Nov/18	20/Nov/18	BEL-29 / Write estimator which wraps classfier		Write estimator which accepts Classifier in params. If I call fit on this transfomer, it will train this classifier. Output of predict function will return actual class labels and predicted class labels for each sample. no data balancing by default (should be optional)	Matej Končál
📋	BEL-86	DONE	BEL Sprint 3	07/Nov/18	20/Nov/18	BEL-84 / Expose endpoint for data retrieval		Should accept sessionId to get dataset for selected session	Unassig
📋	BEL-110	DONE		16/Nov/18	20/Nov/18	BEL-106 / Add SAST checking		https://gitlab.com/help/user/project/security_dashboard https://gitlab.com/help/ci/examples/sast.md e.g.: https://gitlab.com/tp-fastar/server/pipelines/36906104/security	Unassig

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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.	• For each segment ○ average ○ min ○ max ○ median ○ lower quartile ○ upper quartile ○ Inter quartilre range • Calculate those features also for parts (beginning, middle, end) of segment (Defined by count of points - events, custom chosing) • Calculate duration, distance, start and end x;y, trajectory length	Kamil E
🔖	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 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)	Kamil E
🔖	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 export data from server to csv file, so that I can use it for further processing.	Kamil E
🔖	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	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 • "typical" metrics for binary classifiers: accuracy, precision, recall, F1-score • domain-specific: FAR, FRR, EER • User should be able to choose the reported metrics	Kamil E
🔖	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 columns (see picture in attachments) for data	Kamil E
⊞	BEL-101	DONE	BEL Sprint 3	12/Nov/18	20/Nov/18	BEL-29 / Create pipeline for user authentication evaluation		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, ...	Michal Manak
✅	BEL-72	DONE	BEL Sprint 3	02/Nov/18	20/Nov/18	Change demo implementation	builded lib removed from repo master version of demo deployed on gitlab-pages	Please stop building library into repository. Artifacts are available from CI. https://docs.gitlab.com/ee/user/project/pipelines/job_artifacts.html#downloading-the-latest-artifacts Please state this information in readme.	Ján Vne
⊞	BEL-100	DONE	BEL Sprint 3	12/Nov/18	20/Nov/18	BEL-29 / Add function for metrics calculation		Write function which computes metrics. This function accepts actual class labels and predicted class labels as input.	Matej Končál
⊞	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, EER	Michal Manak

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	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 could be used in Pipeline and accepts *user_id* as parameter. Output of this transformer will contain label column, which represents if row belongs (**1**)/not belongs (**0**) to user with *user_id* passed in parameter.	Tomáš Jendrej
	BEL-97	DONE	BEL Sprint 3	12/Nov/18	20/Nov/18	BEL-78 / Create function for data column name preprocess		Function should transform data column name to name that we require for ml module.	Michal Manak
	BEL-93	DONE	BEL Sprint 3	10/Nov/18	20/Nov/18	BEL-27 / Compute features for each segment		Write function to compute features for each segment • average • min • max • median • lower quartile • upper quartile • inter quartilre range • duration • start x • start y • end x • end y Matej Končál suggest to use pandas.grouby.agg. Make groupby general, so i can change groupby column name and compute features e.g. for segment parts	Matej Končál
	BEL-92	DONE	BEL Sprint 3	10/Nov/18	20/Nov/18	BEL-27 / Split segments to parts		Write function to split each segments to 3 parts (maybe more, if there is easy solution): • beginning - e.g. identifier <seg_num>_b • middle - e.g. identifier <seg_num>_m • end - e.g. identifier <seg_num>_e Make function general, so it must be easy to change split criterion, e.g. split criterion will be passed to function via parameter	Matúš Kalafut
	BEL-94	DONE	BEL Sprint 3	10/Nov/18	20/Nov/18	BEL-27 / Compute movement length for segment		Write functions which accepts data from one segment/part of segment and compute: • trajectory length • air distance from start to end	Tomáš Jendrej
	BEL-88	DONE	BEL Sprint 3	07/Nov/18	19/Nov/18	BEL-84 / Implement data conversion		Implement data conversion from structure stored in database into CSV format.	Matúš Kalafut
	BEL-111	IN PROGRESS		19/Nov/18	19/Nov/18	BEL-106 / Error handling			Unassig
	BEL-106	TO DO		15/Nov/18	19/Nov/18	Technical debt – server module			Kamil Janeče
	BEL-105	TO DO		15/Nov/18	19/Nov/18	BEL-106 / Implement logging in server module		http://flask.pocoo.org/docs/1.0/logging/	Unassig

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📋	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 this:
								
								``json
								{
								    "sessionId": 24,
								    "timeStamp": 2580.599999986589,
								    "eventType": "CUSTOM",
								    "payLoad": {dynamic},
								    "sessionStartsAt": 1541118820776
								}
								``
								
								That dynamic part is problematic for us. We need to know all of those possible columns before we can start doing any processing.
									Kamil Janeče

📋	BEL-109	TO DO		15/Nov/18	15/Nov/18	BEL-106 / Documentation		docstrings readme	Unassig
📋	BEL-108	TO DO		15/Nov/18	15/Nov/18	BEL-106 / Repository structure		atleast move docker-compose files to separate folder https://gitlab.com/tp-fastar/server	Unassig
📋	BEL-107	TO DO		15/Nov/18	15/Nov/18	BEL-106 / Improve logger detection		https://gitlab.com/tp-fastar/server/blob/develop/behametrics/util.py#L10	Unassig
🔖	BEL-104	TO DO		14/Nov/18	14/Nov/18	Specify hierarchy of criteria to split data to segments		To achieve ultimate flexibility in splitting data to segments, pass a hierarchical structure (e.g. lists of lists) to the segment split function. This very likely replaces feature extraction from parts of a single segment.	Unassig
🔖	BEL-103	TO DO		13/Nov/18	13/Nov/18	Extract features from frequency domain			Unassig
🔖	BEL-61	TO DO		23/Oct/18	13/Nov/18	Compute derived columns from raw data	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 regards to: • 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. • 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).	Unassig
📋	BEL-87	DONE	BEL Sprint 3	07/Nov/18	07/Nov/18	BEL-84 / Finalize data format		get correct column names for CSV export relates to BEL-78	Matej Končál
🔖	BEL-90	TO DO		07/Nov/18	07/Nov/18	Tag extracted features		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. Example: • mean velocity - high observability (insecure, unsuitable for user authentication), good distinctiveness (for e.g. emotion recognition) • start/end x, y - high consistency and distinctiveness for specific gestures (e.g. active authentication), barely usable for free movements (e.g. continuous authentication) For each tag, each claim should be supported by providing links to relevant sources (articles, papers).	Unassig
🔖	BEL-33	TO DO		09/Oct/18	07/Nov/18	Visualization of segments			Unassig

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🔖	BEL-12	TO DO		07/Oct/18	07/Nov/18	Log device metadata		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. Fields: • type - mouse, mobile device, ... • device sensor - touch, accelerometer, ... (undefined if type is mouse) • OS, version, model • a unique device identifier	*Unassig*
🔖	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 Janeče
🔖	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.	• Logger should log also combinations of mouse clicks (all 5 mouse buttons) • Log scroll amount (horizontal, vertical)	Ján Vne
🔖	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 events to be logged so that I can enhance pre-processing of raw data. Events could be defined in the code. Examples: clicking or moving through a specific object 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.	Kamil B
🔖	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 B
🔖	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 B
✅	BEL-75	DONE	BEL Sprint 2	02/Nov/18	06/Nov/18	Prepare jupyter notebook for demo		Create jupyter notebook 1. load raw_logs.csv 2. demonstrate usage of functions implemented in ~~BEL-25~~ and ~~BEL-26~~	Michal Manak
🔲	BEL-77	DONE	BEL Sprint 2	05/Nov/18	05/Nov/18	BEL-8 / Interface for custom events		Allow user to programaticaly log custom events: these events will have structure defined in issue ~~BEL-74~~	Michal Manak
🔲	BEL-63	DONE	BEL Sprint 2	23/Oct/18	05/Nov/18	BEL-52 / Advanced mouse clicks implementation			Kamil Janeče

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⊡	BEL-73	DONE	BEL Sprint 2	02/Nov/18	05/Nov/18	BEL-56 / Use session ID in logged data			Kamil Janeče
⊡	BEL-65	DONE	BEL Sprint 2	25/Oct/18	05/Nov/18	BEL-56 / Serve flask with gunicorn in production		Configure gunicorn to run flask app, when deployed to production/develop	Kamil Janeče
⊡	BEL-76	DONE	BEL Sprint 2	03/Nov/18	05/Nov/18	BEL-56 / Validate clients header		http://flask.pocoo.org/docs/1.0/api/#flask.Flask.before_request validate custom header before every request	Matúš Kalafut
⊡	BEL-66	DONE	BEL Sprint 2	27/Oct/18	04/Nov/18	BEL-56 / Posting logged data to server			Kamil Janeče
⊡	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-60	DONE	BEL Sprint 2	23/Oct/18	03/Nov/18	BEL-56 / Model events in database		ideas: document per session event = meta + payload	Unassig
⊡	BEL-59	DONE	BEL Sprint 2	23/Oct/18	03/Nov/18	BEL-56 / Save sesion id in events			Unassig
⊡	BEL-64	DONE	BEL Sprint 2	25/Oct/18	02/Nov/18	BEL-56 / Server CI/CD refactor		• fix docker image creation job - cache from latest-dev image when branch develop • replace '_' with '-' in docker container name	Kamil Janeče
⊡	BEL-74	DONE	BEL Sprint 2	02/Nov/18	02/Nov/18	BEL-8 / Define data structure	Specified data structure	Define data structure for custom events (all events)	Kamil Janeče
▣	BEL-13	DONE		07/Oct/18	23/Oct/18	Log Session Metadata		As a researcher I want to log information about the current session so that I can distinguish raw data from multiple sessions. Fields: • session identifier • user identifier	Unassig
▣	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?	Unassig
⚡	BEL-20	DONE		08/Oct/18	23/Oct/18	Project kickoff			Unassig

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🔖	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. • display stored data • technologies	Kamil E
📋	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 Janeče
📋	BEL-47	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-17 / Product deployment methodology			Michal Manak
📋	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-39	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-17 / Methodology for code review			Matúš Kalafut
📋	BEL-43	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-23 / Integrate server with database		Save data to database.	Michae Balážov
📋	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-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	Michae Balážov
💡	BEL-38	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	Big picture		https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Big+picture	Michal Manak
📋	BEL-55	DONE	BEL Sprint 1	22/Oct/18	22/Oct/18	BEL-38 / Define goals of our project		• goals for this semester ◦ what needs to be done in the end of winter semester (approximately 17.12.) • visions for the next semester	Michal Manak
📋	BEL-46	DONE	BEL Sprint 1	09/Oct/18	22/Oct/18	BEL-38 / High-level product architecture			Michal Manak
📋	BEL-49	DONE	BEL Sprint 1	09/Oct/18	21/Oct/18	BEL-17 / Definition of ready			Kamil Janeče

T	Key	Status	Sprint	Created	Updated	Summary	Acceptance criteria	Description	Assignee
📋	BEL-48	DONE	BEL Sprint 1	09/Oct/18	21/Oct/18	BEL-17 / Definition of done			Michal Manak
💡	BEL-19	DONE		08/Oct/18	21/Oct/18	Team setup			Tomáš Jendrej
📋	BEL-40	DONE	BEL Sprint 1	09/Oct/18	21/Oct/18	BEL-17 / Methodologies for documentation		https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Documentation	Kamil Janeče

🔖	BEL-7	DONE	BEL Sprint 1	06/Oct/18	16/Oct/18	Log Mouse Raw Data	List of log events in console	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.
								Data to log:
								
								• **log name of the event + generic data (x, y, timestamp)**
								• coordinates (x, y)
								• timestamp - as precise as possible
								• event type - move, click (left, middle, right, ...), scroll, ...
								   ◦ in case of clicks, distinguish mouse-down and mouse-up
								Additional comments:
								
								• browser and version compatibility - not really sure, as many as possible, I guess
								   ◦ chrome- latest
								   ◦ firefox- latest
								• performance concerns - not important at the moment
								References:
								
								• https://developer.mozilla.org/en-US/docs/Web/API/MouseEvent/buttons
								• https://developer.mozilla.org/en-US/docs/Web/Events/wheel
									Kamil E

📋	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.	**Website minumum requirements:** • team name • information about teammates • project plan • current state of plan • teammates roles • links to documentation and meetings records • all interesting things connected with the project and the project workflow	Ján Vne
📋	BEL-5	DONE		06/Oct/18	15/Oct/18	BEL-1 / Current server deployment	Test	setup CI for current server deployment	Matej Končál
📋	BEL-44	DONE	BEL Sprint 1	09/Oct/18	14/Oct/18	BEL-7 / Logging functionality		Method/observable which will return required data: timestamp, x, y, eventName	Kamil Janeče
📋	BEL-45	DONE	BEL Sprint 1	09/Oct/18	14/Oct/18	BEL-7 / Verify logging		Verify logging component in firefox: latest chrome: latest ▪ > write all output to console	Ján Vne

T	Key	Status	Sprint	Created	Updated	Summary		Acceptance criteria	Description	Assignee
📄	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-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 Janeče
🔖	BEL-32	TO DO		09/Oct/18	09/Oct/18	Visualization of raw data				Unassig
📄	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: • scrum master - Michal Manak • documentation - Michaela Balážová • code quality (code review, review of created tests) - Kamil Janeček • frontend - Ján Vnenčák • server admin - Matej Končál • testing - Tomáš Jendrejčák • implementation - Matúš Kalafut Discuss and figure out (later, during project) how to assign another roles like developer, versioning, backend ...	Michae Balážo
⚡	BEL-31	TO DO		09/Oct/18	09/Oct/18	Visualization of raw data, events, preprocessed data and results				Unassig
⚡	BEL-28	TO DO		09/Oct/18	09/Oct/18	Simplify training and testing of user models for experiments				Unassig
📄	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/6z0HoX https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Team+identity	Michae Balážo
📄	BEL-2	DONE		02/Oct/18	06/Oct/18	BEL-1 /	Confluence		Cakame na ramku: https://tfs.fiit.stuba.sk:8443/tfs/StudentsProjects/TP%20Virtual%20Machines/_workitems?id=8857 Vyzera, ze to vie rozumne bezat z dockeru: https://hub.docker.com/r/atlassian/confluence-server/	Kamil Janeče
📄	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