fastar-jira

Project: behametrics-learn
Sorted by: Priority descending, then Updated descending
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Key	Status	Created	Updated	Development	Assignee	Description	Acceptance criteria	T	Summary
BEL-18	DONE	08/Oct/18	15/Oct/18		Kamil Janeček	Create JIRA methodoogy.			BEL-17 / JIRA methodology
BEL-17	DONE	08/Oct/18	22/Oct/18		Michal Manak	Create all required methodologies.			Methodologies
BEL-50	DONE	10/Oct/18	21/Oct/18		Kamil Janeček	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.			BEL-23 / Tests and DI
BEL-1	DONE	02/Oct/18	15/Oct/18		Kamil Janeček		VM is setup correctly (nginx, jira, confluence, firewall, product app, TLS) Website is created and deployed.		VM setup
BEL-4	DONE	02/Oct/18	08/Oct/18		Michal Manak	Gitlab-CI -> copy to VM. / create user, folder, nginx settings/			BEL-1 / Setup webpage deploy to VM
BEL-26	TO DO	09/Oct/18	23/Oct/18		Unassigned	Data should be tagged by segment according to its time interval, silence time, or combination of both. Criteria should be maximally variable.	User is able to get data by session with segments criteria (time intervals - silence, combination)		Split raw data to time interval and silence segments
BEL-61	TO DO	23/Oct/18	23/Oct/18		Unassigned	Compute additional columns (see picture in attachments) for data	Computed columns are visible in table with raw data.		Compute derived columns from raw data
BEL-24	TO DO	09/Oct/18	23/Oct/18		Unassigned				Apply preprocessing methods to logged data during analysis
BEL-62	TO DO	23/Oct/18	23/Oct/18		Unassigned	Examples of split criteria: • explicit events - for touch screen, all data between touch-down and touch-up form one segment • regular time intervals - for accelerometer data • difference in values of a column ◦ e.g. rapid change in velocity -> new segment			Split raw data to segments
BEL-25	TO DO	09/Oct/18	23/Oct/18		Unassigned	Compute additional columns (see picture in attachments) for data	Computed columns are visible in table with raw data.		Compute speed related columns from raw data

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BEL-13	DONE	07/Oct/18	23/Oct/18		Unassigned	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			Log Session Metadata
BEL-8	TO DO	06/Oct/18	23/Oct/18		Unassigned	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.	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.		Log Custom Events
BEL-53	DONE	16/Oct/18	23/Oct/18		Unassigned	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?			Log User ID
BEL-52	TO DO	16/Oct/18	23/Oct/18		Unassigned	• Logger should log also combinations of mouse clicks (all 5 mouse buttons) • Log scroll amount (horizontal, vertical)	On scroll event, data should contain 2 properties for vertical and horizontal scroll amount delta. Mouse button property should contain all mouse click combinations.		Log Mouse Clicks - Advanced
BEL-60	TO DO	23/Oct/18	23/Oct/18		Unassigned	maybe?			BEL-56 / Validate events on server
BEL-59	TO DO	23/Oct/18	23/Oct/18		Unassigned				BEL-56 / Save sesion id in events
BEL-58	TO DO	23/Oct/18	23/Oct/18		Unassigned				BEL-56 / Filter session data on server
BEL-56	TO DO	23/Oct/18	23/Oct/18		Unassigned	As a researcher I want to store logged data per session, so that I can see the data per session.	User is able to get data from session, identified by session id (shown on logger page)		Integrate logger with server
BEL-57	TO DO	23/Oct/18	23/Oct/18		Unassigned				BEL-56 / UID generation scheme
BEL-6	TO DO	06/Oct/18	23/Oct/18		Unassigned				Log and store raw data and events from websites
BEL-20	DONE	08/Oct/18	23/Oct/18		Unassigned				Project kickoff
BEL-23	DONE	09/Oct/18	23/Oct/18		Kamil Burda	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	test of saving data (example input - json) and display correct data on retrieval		Store Logged Data

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BEL-54	DONE	21/Oct/18	23/Oct/18		Kamil Janeček	setup deployment /run docker container/ setup nginx	current develop branch deployed to VM		BEL-23 / Deploy develop to VM
BEL-47	DONE	09/Oct/18	22/Oct/18		Michal Manak				BEL-17 / Product deployment methodology
BEL-21	DONE	08/Oct/18	22/Oct/18		Michal Manak	Create methodologies for code writing	Defined methodologies for code writing approved by all team members		BEL-17 / Methodology for code writing
BEL-39	DONE	09/Oct/18	22/Oct/18		Matúš Kalafut				BEL-17 / Methodology for code review
BEL-43	DONE	09/Oct/18	22/Oct/18		Michaela Balážová	Save data to database.			BEL-23 / Integrate server with database
BEL-22	DONE	08/Oct/18	22/Oct/18		Matúš Kalafut	Create methodologies for version control	Defined methodologies for version control approved by all team members		BEL-17 / Methodology for version control
BEL-42	DONE	09/Oct/18	22/Oct/18		Michaela Balážová	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			BEL-23 / Backend server
BEL-38	DONE	09/Oct/18	22/Oct/18		Michal Manak	https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Big+picture			Big picture
BEL-55	DONE	22/Oct/18	22/Oct/18		Michal Manak	• goals for this semester ◦ what needs to be done in the end of winter semester (approximately 17.12.) • visions for the next semester			BEL-38 / Define goals of our project
BEL-46	DONE	09/Oct/18	22/Oct/18		Michal Manak				BEL-38 / High-level product architecture
BEL-49	DONE	09/Oct/18	21/Oct/18		Kamil Janeček				BEL-17 / Definition of ready
BEL-48	DONE	09/Oct/18	21/Oct/18		Michal Manak				BEL-17 / Definition of done
BEL-19	DONE	08/Oct/18	21/Oct/18		Tomáš Jendrejčák				Team setup
BEL-40	DONE	09/Oct/18	21/Oct/18		Kamil Janeček	https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Documentation			BEL-17 / Methodologies for documentation

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BEL-7	DONE	06/Oct/18	16/Oct/18		Kamil Burda	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	List of log events in console	🔖	Log Mouse Raw Data
BEL-16	DONE	08/Oct/18	15/Oct/18		Ján Vnenčák	**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	Webpage meets all the minimum requirements. Webpage is available on team04-18.studenti.fiit.stuba.sk.	▣	BEL-19 / Webpage
BEL-5	DONE	06/Oct/18	15/Oct/18		Matej Končál	setup CI for current server deployment	Test	▣	BEL-1 / Current server deployment
BEL-44	DONE	09/Oct/18	14/Oct/18		Kamil Janeček	Method/observable which will return required data: timestamp, x, y, eventName		▣	BEL-7 / Logging functionality
BEL-45	DONE	09/Oct/18	14/Oct/18		Ján Vnenčák	Verify logging component in firefox: latest chrome: latest ■ > write all output to console		▣	BEL-7 / Verify logging
BEL-51	DONE	13/Oct/18	14/Oct/18		Michal Manak	Characters with diacritics are not consistent with other characters. Change it.	Characters with diacritic are consistent with other characters	▣	BEL-19 / Font webpage
BEL-41	DONE	09/Oct/18	12/Oct/18		Kamil Janeček	Setup MongoDB on our VM. (docker container, secured instance, start on startup)		▣	BEL-23 / Configure database system
BEL-11	TO DO	07/Oct/18	12/Oct/18		Unassigned	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.		🔖	Choose Frequency of Logging from Mobile Devices

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BEL-36	TO DO	09/Oct/18	12/Oct/18		Unassigned	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.			Plot curves for FAR, FRR and EER
BEL-32	TO DO	09/Oct/18	09/Oct/18		Unassigned				Visualization of raw data
BEL-33	TO DO	09/Oct/18	09/Oct/18		Unassigned	Segments = chunks of raw data			Visualization of segments
BEL-34	TO DO	09/Oct/18	09/Oct/18		Unassigned	ROC = receiver operating characteristic			Plot ROC curve
BEL-35	TO DO	09/Oct/18	09/Oct/18		Unassigned	DET = detection error trade-off			Plot DET curve
BEL-37	TO DO	09/Oct/18	09/Oct/18		Unassigned	Events: • device-specific (mouse-down, ...) • custom Different types of events should be marked differently.			Add events to raw data visualization
BEL-14	DONE	08/Oct/18	09/Oct/18		Michaela Balážová	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 ...	Every team member has assigned role		BEL-19 / Assign roles
BEL-31	TO DO	09/Oct/18	09/Oct/18		Unassigned				Visualization of raw data, events, preprocessed data and results
BEL-30	TO DO	09/Oct/18	09/Oct/18		Unassigned	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.			Scalability of user model w.r.t. number of users
BEL-28	TO DO	09/Oct/18	09/Oct/18		Unassigned				Simplify training and testing of user models for experiments

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BEL-29	TO DO	09/Oct/18	09/Oct/18		Unassigned	Usually, for n users from an experiment, user authentication is computed as follows:			User authentication

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

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BEL-27	TO DO	09/Oct/18	09/Oct/18		Unassigned	Examples:			Extract features from segments

Examples:

- mean velocity on x-axis
- std. dev. of velocity on x-axis
- mean velocity on x-axis at the start
    - start - first n points, first points satisfying a criterion, ...

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BEL-15	DONE	08/Oct/18	08/Oct/18		Michaela Balážová	create logo of our team https://logomakr.com/6z0HoX https://team04-18.studenti.fiit.stuba.sk/wiki/display/BEH/Team+identity	created logo of team		BEL-19 / Team logo

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BEL-12	TO DO	07/Oct/18	07/Oct/18		Unassigned	As a researcher			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

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BEL-9	TO DO	07/Oct/18	07/Oct/18		Unassigned	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 size, touch pressure (only one of these fields returns valid values, depending on the device) ○ major and minor axis of touch area ○ touch events - down, move, up, ... ○ do not forget to support multi-touch gestures • sensors (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			Log Raw Data from Mobile Devices
BEL-10	TO DO	07/Oct/18	07/Oct/18		Unassigned	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.			Choose Sensors to Log from Mobile Devices
BEL-2	DONE	02/Oct/18	06/Oct/18		Kamil Janeček	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/			BEL-1 / Confluence
BEL-3	DONE	02/Oct/18	02/Oct/18		Matej Končál	Dufam, ze let's encrypt pojde aj ked nemame vlastnictvo domeny. Nahodit do nginxu.			BEL-1 / TLS