Codebook for MultiLA prepared tracking data

The prepared data will be stored under

data/prepared/<application_session_id>_tracking_data.rds

in the TrackingDataScripts project. It contains a dataframe of tracked events with the following variables:

- user_app_sess_code: user application session code (session code for an individual anonymous or registered user interacting with a specific application session) -- factor
- user_app_sess_user_id: user ID for registered users; no further data on individual users is provided in this dataset -- integer for registered users or NA for anonymous users
- track_sess_id: tracking session ID (ID indicating a continuous interaction of a user with the application session on a single device) -- integer
- track_sess_start: start of the tracking session (first visit of a user on this device for this application session) -- POSIXct time
- track_sess_end: end of the tracking session (user closes the browser window of logs out) -- POSIXct time
- user_agent: "user agent"" string from the browser -- character string
- client_ip: client IP address (if it could be determined)
- form_factor: factor; "desktop", "tablet" or "phone"
- initial win width: initial client browser window width; numeric
- initial win height: initial client browser window height; numeric
- initial_contentview_width: initial content view width; numeric
- initial_contentview_height: initial content view height; numeric
- initial_contentscroll_width: initial content scroll area width; numeric
- initial_contentscroll_height: initial content scroll area height; numeric
- event_time: time the event took place; POSIXct time with millisecond accuracy
- type: event type; factor
- chapter_index: content chapter index; integer
- chapter_id: content chapter ID label; factor
- ex_label: question or exercise label; factor
- ex_id: question or exercise ID; character string
- ex_event: learnr code exercise event type; character string ("result" or

- "submitted")
- ex_output: learnr code exercise R output; character string
- ex_correct: learnr code exercise result assessment -- correct or uncorrect; logical
- xpath: XPath to HTML element related to the event (if any); character string
- css: CSS selector to HTML element related to the event (if any); character string
- value: value related to the event; for input events this is the value that was entered; for code exercises this is the code the user submitted; for question exercises, this is the submitted answer (multiple answers are formatted as [answer1, answer2, ... answern]); character string
- coord1: X coordinate for spatial events like mouse moves or clicks; numeric
- coord2: Y coordinate for spatial events like mouse moves or clicks; numeric
- win_width: current client browser window width at the time when the event occurred; numeric
- win_height: current client browser window height at the time when the event occurred; numeric
- contentview_width: current content view width at the time when the event occurred; numeric
- contentview_height: current content view height at the time when the event occurred: numeric
- win_scroll_x: current client browser window scroll X position; numeric
- win_scroll_y: current client browser window scroll Y position; numeric
- content_scroll_x: current content area scroll X position; numeric
- content scroll y: current content area scroll Y position; numeric