USER STORY VALIDATION

Product name: Colorful History
Team name: Tracer
Release name: Colorful History v1.0
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SPRINT 1

User Story 1 from Sprint 1
As a developer, I want to do some interesting analysis using statistical methods so that user can earn valuable knowledge from it.

Interpretation:
Aggregation/ Classification of data on time intervals/ Domains

Scenario:

1. *back.js* is imported when analysis.html is opened.
2. *collectData* function is called from analysis.js with a callback function
3. *collectData* extracts user history through chrome API within given time span
4. Aggregate/Filter the raw data and save it in global variable
5. Calls the callback function

Note:
Works well.

User story 2 from Sprint 1
As a user, I want to see charts for each day of a week, time of a day, so that I look back my week.

Interpretation:
Basic graph chart implemented:

- A broken line graph.
- It shows your Internet usage with *Hits per day*.

Scenario:

1. User clicks the extension button to open up the report page.
2. User can see the trend in the number of pages viewed per day.

Note:
Works well.

User story 3 from Sprint 1
As a user, I want to see some beautiful charts.

Interpretation:
4 charts implemented:

- *Domain cloud* shows your Internet history at a glance.
- *Hits per day* shows your daily visit compared to past usage.
- *Day-hour heat map* shows your active time/ day of week in given time span.
- *Top domains pie chart* shows the ranking of domain visit and its percentage of total usage.

Scenario:

1. User clicks the extension button and scrolls down.
2. User appreciates eye-pleasing charts.

Note:
Works well.

SPRINT 2

User story 1 from Sprint 2
As a user, I want to view my history at a glance.

Interpretation:
Domain cloud shows your Internet history at a glance.
Day-hour heat map could imply a lot of data in small 2-dim table.
Top domains pie chart is less abstract than other graphical charts. It shows most hit domain relatively.

Scenario:

1. User clicks the extension button and can see *Domain cloud* immediately.
2. User can see the amount visited of any website according to day-hour.
3. User can compare several most visited domains with *Top domains pie chart*.

Note:
Works well.

User story 2 from Sprint 2
As a user, I wonder how productive I am.

Interpretation:
Failed to find appropriate technical definition of *'productivity'*.

Scenario: *intentionally empty*

Note:
Failed to implement.

User story 3 from Sprint 2
As a developer, I want to visualize statistics quickly so that user can get instant feedback.

Interpretation:
Refactoring executed on the data processing code segment.
Spinner UI added to give the user a notion that system is working.

Scenario:
1. When system is working on data processing the site indicates it with a spinner.

Note:
Works well.

User story 4 from Sprint 2
As a developer, I want our data visualization to be interactive.

Interpretation:
General UX fine-tuned:
- *'Filter'* function added, and react to the user promptly.
    - We can choose time span among 1 hour ~ 3 months.
    - We can search a specific domain or title.
- Domains in *Domain cloud* is now clickable.
- *Day-hour heat map* now shows tooltips on mouseover.
- *Top domains pie chart* now works with an animation.

Scenario:
1. User open up the analysis.html.
2. Click select-picker on the sidebar and change timespan to 1-month.
3. Enter google in the search box and click filter button.
4. Interact with charts by clicking and hovering.

Note:
Works well.