

Product Requirements Document (PRD): SUDCare Study Dashboard

Objective

Provide an interactive, modern dashboard to visualize chatbot study metrics. Dashboard must support modular data updates, flexible widget expansion, and easy hosting for non-technical team members.

Data Architecture

- Input format: JSON objects representing each metric set.
- Parallel datasets: All data and subset excluding outlier (p266).
- Dashboard allows toggling between datasets.
- Future-proof: new JSON schemas ingestible with minimal code changes.

Features

1. Core Widgets:

- Messages by Study Week (bar chart)
- Messages by User (horizontal bar chart)
- Categories (bar chart)
- Subcategories (horizontal bar chart)
- Assistant Response TRUE/FALSE (pie chart with green/red)
- Message Times (hour-of-day heatmap)

2. Interactivity:

- Expandable widgets: click to expand full view, click again to collapse.
- Outlier toggle: exclude/include participant p266.
- Search box to filter by participant/category.

3. Layout:

- Default board: compressed widgets, 3-column layout.
- Expanded mode: single-widget focus, larger scale, all labels visible.

Technical Implementation

Frontend:

- React + Next.js (host on Vercel)
- TailwindCSS + shadcn/ui for components
- Recharts for charts

Data Loading:

- JSON files in `/data` or lightweight API
- Parse JSON and feed charts

Hosting:

- Deploy on Vercel or Netlify
- Public URL for non-technical team

Extensibility

- New widgets added via new JSON + chart component
- Central color palette for theming
- Possible future: show deltas between All vs Excluding Outlier

Deliverables

- GitHub repo with components, data folder, main dashboard page, utils/colors
- README with setup, data ingestion, and deployment guide

JSON Schema

```
{
  "dataset": "all" | "exclude_p266",
  "last_updated": "YYYY-MM-DD",
  "metrics": {
    "weekly_messages": [ { "week": number, "messages": number } ],
    "messages_by_user": [ { "participant": string, "count": number } ],
    "categories": [ { "name": string, "count": number } ],
    "subcategories": [ { "name": string, "count": number } ],
    "suzy_can_respond": [ { "able": "TRUE" | "FALSE", "count": number } ],
    "message_times": [ { "hour": 0-23, "count": number } ]
  }
}
```