

## Project Milestone 2

### Project Features List:

- Questionnaire: Setups the default application values (ie do they want to track caffeine intake) for the user.
- Sleep tracking: Every day the user is queried for various pieces of information for our system to use to provide insights.
- Suggestions: Provide insights for the user based on their data.
- Data visualization: Provides a calendar and graph view for the various data points.
- Anonymous forum (feedback system): Users can gain insights from similar users' data
- User Accounts: Users can create accounts that store data in the "cloud" (backend) and can be used on multiple devices.

### Requirements: (six *additional* features, one funct and non-funct for each, use user stories)

- User Stories:
  - As a user, I want a strong password so that my information is secure:
    - Functional:
      - Encrypt passwords
      - Validate the schema of the password (min/max length, etc)
    - Non-functional:
      - Minimum password length is 8 characters
      - Maximum password length is 64 characters
      - Needs a special character
  - As a user, I want to be able to track how much sleep I am getting:
    - Functional:
      - Sleep data must be collected
    - Non-functional:
      - The graphs showing the amount of sleep need to be red
  - As a user, I want to be able to compare my sleeping habits and trends to other users.
    - Functional:
      - Sleep data is stored
      - Anonymous user data accessible to user
      - Potentially a forum for communication between users
    - Non-functional:
      - Accessible data is organized based on relation to users current sleep habits, related sleep habits take priority
  - As a user, I want to be able to see a weekly calendar view that shows when are started and stop sleeping:
    - Functional:
      - Use some javascript data visualization tool to render data in calendar form
      - Potentially make the sleep time range interactive to show start/end time range in definite terms (from 9:00pm to 6:00am)

- Non-functional:
  - Calendar should have time labels in form: 1:00 pm
  - Calendar should be scrollable
  - Calendar should have buttons to go back/forward a week
- As a user, I want to have access to advice so that I can improve my sleep.
  - Functional:
    - daily advice for how to get better sleep
    - daily questions/survey at wakeup to see how previous nights sleep went. Advice that user gets is given accordingly.
    - daily questions at bedtime to track other habits from that day. (e.g. caffeine intake from that day)
    - questionnaire for user to specify what is important to them (this will influence what appears in data visualization, as well as the advice that individual receives)
  - Non-functional:
    - questionnaire occurs at account setup
    - daily questions to see how previous nights sleep was
    - nightly questions (depending on user?)
    - user has option to change these settings at any time, altering the kind of advice that they will receive.
- As a user I want to observe my sleeping habits and the potential aspects affecting my sleep in the form of a graph.
  - Functional:
    - Graph will be display hours slept over recent days in comparison to other metrics user is tracking
  - Non-functional:
    - User can selected/deselected data points on the graph

Project Plan: [GitHub Project Board](#)

Milestones - this groups issues together that have a due date - these milestones will act as the project's "sprints": [Github Project Milestones](#)

Issues - Grouped under a milestone, shows how will be working on it: [Github Project](#)

Wireframes: [Figma Wireframe](#)

Individual Contributions:

- RJ Sampson
  - Contributions: Researched database implementations
  - Last Git commit: [Make the README look better](#)
- Kyle Pfromer
  - Contributions:
  - Last Git commit: [Merge pull request #2 from CSCI-3308-CU-Boulder/test\\_branch](#)
- Reiko Matsuda-Dunn

- Contributions:
  - Last Git commit: [Adding my name again](#)
- Hunter Rohlman
  - Contributions: Learning fundamentals of full stack development and collaborating with team for basis of app
  - Last Git commit: [readme changes](#)
- Sarah Litz
  - Contributions: Collaborating with team to lay groundwork for app / learning basics.
  - Last Git commit: [sarah's commit lab4](#)