**Software Requirements and Design Document**

**For**

**Group <8>**

Version 1.0

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# Overview (5 points)

MacroMinder is a webapp for tracking and visualizing macros and habits. You can check off habits that you or a coach have added, as well as input your weight. It features different role types such as Life Coaches that can help give you goals and can keep track of general user progress. You can log your macros and habits daily, as well as go back if you forgot to log your macros. You will be able to see visualizations of changes over time through graphs and charts to monitor your progress.

# Functional Requirements (10 points)

1. The system should allow users to create an account, a normal account or life coach.
2. The users should log-in and reach a landing page, which displays macros and habits, and log out.
3. The user should be able to input and log macros into a hosted database, stored under unique key being the macro, userid, and date.
4. The user should be able to create habits, that are stored as binary 0 or 1 with unique keys being the combination of userid, habitid, and date.
5. Users should be able to add life coaches.
6. Life coaches should be able to see user data and edit it.
7. Users should be able to see their inputted data visualized over time.

# Non-functional Requirements (10 points)

As this project was originally a Secure, Parallel, Distributed project, this project is secure, distributed over a network and hosted using aws.

1. Passwords are encrypted using bcrypt library.
2. Our database is hosted, so your data is accessible on any device.
3. I would like for our webapp to be visually appealing, which it is currently not.

# Use Case Diagram (10 points)

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AI-generated content may be incorrect.*

# Class Diagram and/or Sequence Diagrams (15 points)

*A diagram of a diagram

AI-generated content may be incorrect.*

*A diagram of a login

AI-generated content may be incorrect.*

*A diagram of a user

AI-generated content may be incorrect.*

*A diagram of a life coach

AI-generated content may be incorrect.*

# Operating Environment (5 points)

Since it is a webapp, the application should run on any browser, though we have only tested it on Google Chrome. Looks fine on phone.

# Assumptions and Dependencies (5 points)

We are using python and python standard library, and migrating to react. Our frontend is css and java script. The database is hosted through RDS using SQL, In our code pipeline we host on elastic beanstalk (aws service).