

# QUANTSELF PROJECT SCOPE

March 18, 2022

## OVERVIEW

### 1. Project Background and Description

QuantSelf is a habit tracker with the ability to create any set of trackers by the user within the assigned parameters. That is it has to be either

- Numerical
  - Ordinal Value
  - Continual Values
  - Continuous Quantities
- Categorical Discrete Value
- Boolean Value

The User can create a tracker and submit that to be used publicly or privately based on their preference.

### 2. Project Scope

Most of the application context has been developed using divisional design pattern. Extensively used Flask blueprints within the development for code reusability and better compartmentalization.

Mainly Flask, Flask-Restful, Flask-SQLAlchemy and requests library have been used. Front-end design has not been begun yet. Although the wireframe will closely follow the one presented in the project requirement

### 3. High-Level Requirements

The new system must include the following:

- CRUD operations on a given Tracker, Log etc.
- API for various endpoints with argument validation both input and output.
- Scalable database schema design to support modular design.
- Front-end client interface using the Bootstrap framework.

### 4. Deliverables

Working Web application along with its RestFul API backend.

### 5. Structure

All Blueprints within the application are implemented as pythonic modules and all the imports such as views, forms are all imported within the respective `__init__` files.

In order to avoid cyclic dependency all database accesses can only be done within the app context.

## 6. Pending

- API
- Routes
- Views
- Front End.