

# Habit Tracker

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# Description

I have developed an application to track habits that users wish to make or break. Habit Tracker acts as an aid in self self development by giving the user a clear space to map their goals and see their progress.

It can be an overwhelming task to instill better habits, and Habit tracker helps the process be better organized and more motivating.



# Features

- Users can create a personal account
- Thanks to Spring Security and JWT, users can securely login/logout.
- Users can create personal habits to start tracking their progress.
- Users can view their habits on their personal dashboard.



# Planning - User Stories

- Users can create a personal account
- Users can securely log in and out
- Users can view their habits on their dashboard
- Users can create new habits
- Users can log their progress daily
- Users can create optional incentives
- Users can create blog posts to keep track of their thoughts along the way.
- Users can see visual representations of their progress.



# Planning - Database

- ApplicationUser table. (one to many relationship to habits). Fields included id, username, password, List<Habit>
- Habit table (many to one relationship to ApplicationUser). Fields included id, name, description, ApplicationUser



# Technology Stack

- Java
- Spring Boot
- React
- Axios
- Spring Security (JWT method)



# Demo



# What I Learned

- Spring Security with JSON web tokens.
- React and JavaScript
- How to connect the server and client side together by using Axios
- RESTful api





# What's Next

- Get the incentive feature up and running. This feature will better help motivate users toward their goals.
- Blog feature (I have created the front end page, but do not have the back end functionality for this)
- Make the UI much prettier with better formatting. I am planning on having visual representations of progress on the dashboard, so I may want to utilize Chart.js
- Continue learning React

