

# Japanese Study Tracker

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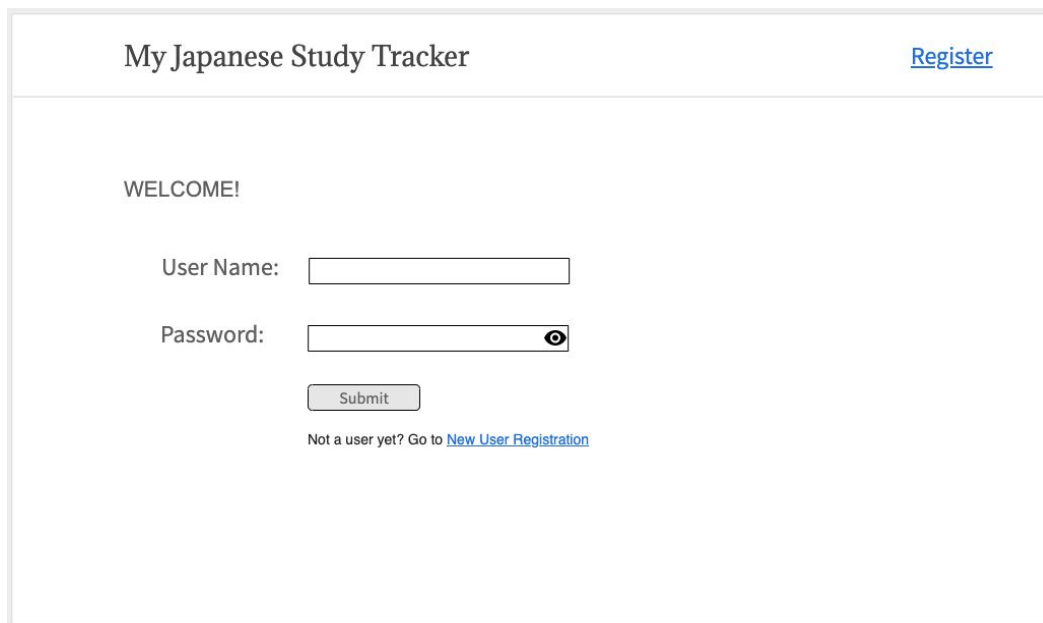
2/23/2021

## Application Overview

This application will help track progress studying Japanese through a variety of sources. The goal is to visualize progress to provide motivation and support to independent language learners. The application itself does not teach Japanese. It is a motivational tool to use alongside other resources to visualize and monitor overall progress. Commonly used tools are added initially to provide a starting point for a new learner. Additional tools and statistics can be added to customize the learning experience.

## Application Features

### 1.1 Log-in



The screenshot shows a web application interface for 'My Japanese Study Tracker'. At the top left, the title 'My Japanese Study Tracker' is displayed. At the top right, there is a blue link labeled 'Register'. Below the title, the text 'WELCOME!' is centered. Underneath, there are two input fields: 'User Name:' followed by a text box, and 'Password:' followed by a text box with an eye icon for toggling visibility. Below the password field is a 'Submit' button. At the bottom, there is a line of text: 'Not a user yet? Go to [New User Registration](#)'.

Only registered users will be able to log in to the application.

- **Log-in** will contain a link to the **Registration** view (1.2).
- Once logged in successfully, the user is taken to the **Home** view (2.0)
- Forgot password will not be included in the initial scope.

## 1.2 Register

My Japanese Study Tracker

[Login](#)

NEW USER REGISTRATION

User Name:

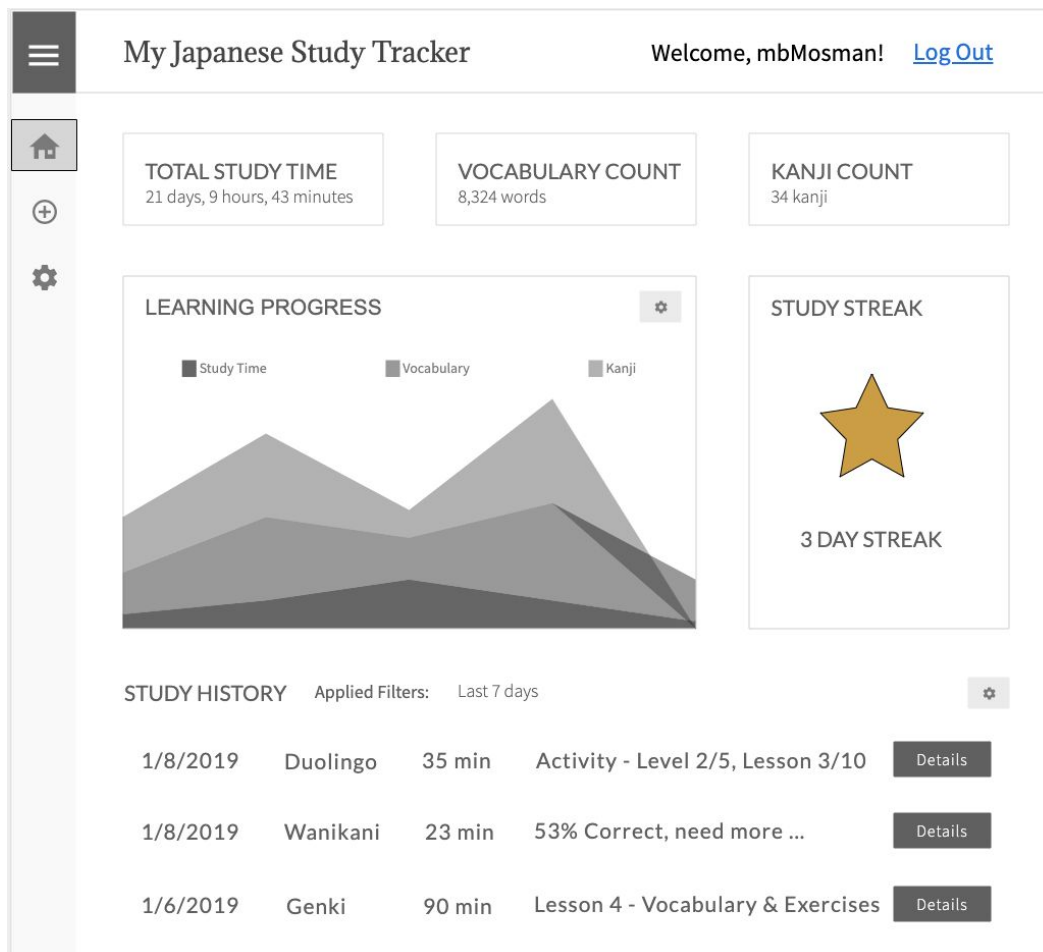
Password:

Already registered? Go to [Login](#)

**Registration** will allow a new user to register their username and password.

- **Registration** will contain a link to the **Login** view (1.1)
- The User Name is required and must be unique.
- The Password is required.
- Once registered, the user is logged in and taken to the **Home** view (2.0)

## 2.0 Home



The **Home** view will show graphs of various statistics from each learning resource.

- Displays standard statistics for total time spent, vocabulary count, and kanji count
- Graph shows recent progress (default 30 days)
  - Configurable for date range and/or statistics shown (Stretch)
- Displays current study streak - the current number of sequential days of study
- Study History will show recent entries (default last 7 days)
  - Configurable for date range and/or study tools (Stretch)
- Clicking the Details button will show **View Entry** (3.1) for all the entry details.
- Clicking Log Out will log out the user and display the **Log-In** (1.0) view.

### 3.0 Add Entry

The screenshot shows a web application titled "My Japanese Study Tracker". At the top right, there are links for "ADD ENTRY" and "Log Out". On the left, a sidebar contains icons for a menu, home, add entry, and settings. The main content area is titled "Add Entry" and includes a "Study Tool" dropdown menu (currently showing "Options") and a "Date" field (showing "1/10/2019"). Below these are two sections: "STATISTICS" and "NOTES". The "STATISTICS" section contains five input fields: "Study Time" (with a "minutes" label), "Vocabulary", "Kanji", "Custom Statistic 1", and "Custom Statistic 3". The "NOTES" section is a large text area. At the bottom right, there are "Cancel" and "Save" buttons.

My Japanese Study Tracker

ADD ENTRY [Log Out](#)

Study Tool: Options Date: 1/10/2019

STATISTICS

Study Time minutes Vocabulary

Kanji Custom Statistic 1

Custom Statistic 3

NOTES

Cancel Save

The **Add Entry** view is used to record a study session.

- The user must first select the Study Tool from the drop down list. (Default tools are: Duolingo, Other, & Wanikani.)
- The Statistics to be entered will be populated specifically for the tool selected. (Custom statistics are a stretch goal.)
- Each entry may have optional notes entered (max 1000 characters). Only these notes are editable after saving.
- Clicking Save will prompt the user to confirm the entry, with a note that the statistic details are not editable after save.


## 3.1 View Entry

**My Japanese Study Tracker** VIEW ENTRY [Log Out](#)

Study Tool: Wanikani Date: 1/8/2019

STATISTICS

Study Time	23 minutes
Vocabulary	21
Kanji	15

NOTES 

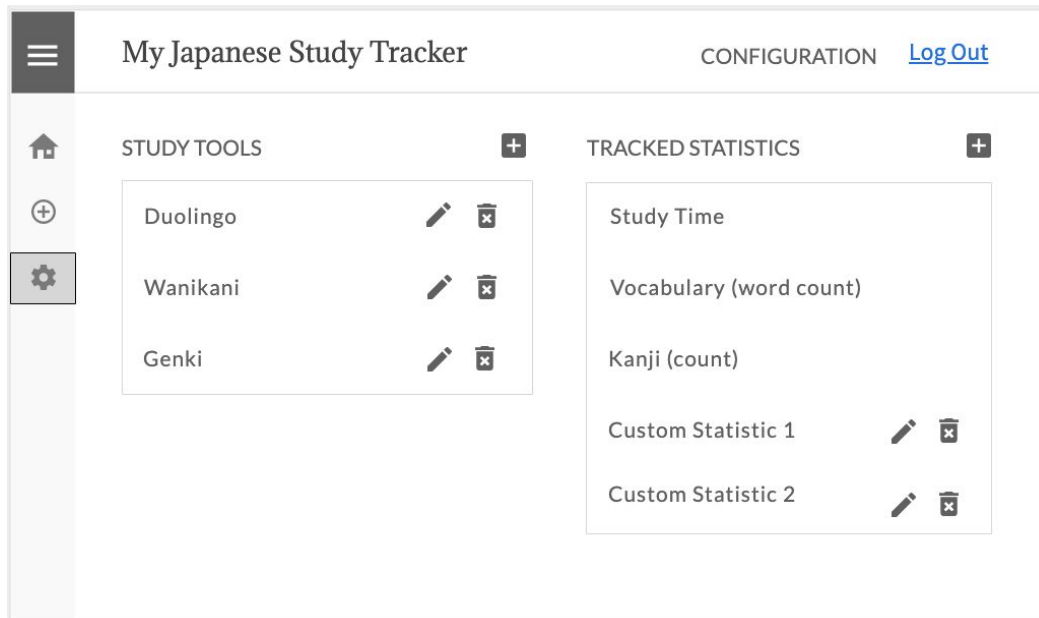
53% Correct, need more practice with the insert, enter, exit kanji

Back Delete

**View Entry** shows all of the details recorded for a study session.

- All tracked statistics for this statistic are shown under Statistics.
- The full text entered for the note is displayed.
- Once the entry has been initially added, only the note information is editable.
- Clicking the pencil icon to edit will allow the user to update the note text (max 1000 characters).
- Clicking Delete will prompt the user to confirm, and unless cancelled, will permanently delete the entry.

## 4.0 Configuration (Stretch)



The **Configuration** view shows all study tools and tracked statistics.


- A new study tool can be added by clicking the + button above the Study Tools table. This will display the **Add/Edit Study Tool** (4.1) dialog.
- A new tracked statistic can be added by clicking the + button above the Tracked Statistics table. This will display the **Add New Statistic** (4.2) dialog.
- Clicking the pencil icon to edit allows modification of the study tool name or tracked statistic name. Only custom added statistics may be edited. This will display the **Add/Edit Study Tool** (4.1) or **Edit Statistic** (4.2) dialog.
- Clicking the trash icon for delete will trigger a confirmation dialog to delete (in no entries have been recorded) or to make inactive (if entries have been recorded). Once inactive, no new entries will be permitted. Only custom added statistics may be removed.
- If a tool or statistic is disabled, the name will be followed by “inactive” in parenthesis, and the pencil (edit) icon will allow the user to enable it again.

Note: The Study Time, Vocabulary and Kanji statistics are set up for all users and all study tools by default. They cannot be edited or removed. This supports tracking those statistics on the main dashboard.

## 4.1 Add/Edit Study Tool (Stretch)

### ADD NEW STUDY TOOL


Name:

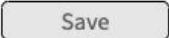
TRACKED STATISTICS 

Study Time (minutes)

Vocabulary (word count)

Kanji (count)

Custom Statistic 2 



The **Add/Edit Study Tool** dialog is used to add or edit a new study tool.

- The heading will change to reflect the action, but otherwise the dialog will function similarly.
- The name is required and must be unique. This is editable once created.
- The default statistics - time, vocabulary, & kanji - are added by default and cannot be removed.
- To add a *custom* tracked statistic for this study tool, click the + button next to the Tracked Statistics heading. This will allow the user to select one of the default global statistics or any active, custom statistic that they have added.
- Added *custom* tracked Statistics may be deleted only if no entries have been made for that study tool. If entries have been made, the statistic may be inactivated, but not deleted.
- If a statistic is disabled, the name will be followed by “inactive” in parenthesis, and an pencil (edit) icon will allow the user to enable it again.

## 4.2 Add New Statistic (Stretch)



The image shows a dialog box titled "ADD STATISTIC". It contains two input fields: "Name:" followed by a text box, and "Type:" followed by a dropdown menu currently showing "Options". To the right of these fields is a "Save" button.

The **Add New Statistic** dialog is used to add a new statistic to track. Statistics can be tracked for any study tool by selecting them in the Edit Study Tool dialog (4.2).

- The name is required and must be unique.
- The type is also required. Values are: numeric count, or time (minutes)

## 4.3 Edit Statistic (Stretch)



The image shows a dialog box titled "EDIT STATISTIC". It contains one input field: "Name:" followed by a text box containing the text "Custom Statistic 1". To the right of this field is a "Save" button.

The **Edit Statistic** dialog is used to change the name of a statistic.

- The name must be unique.
- Once a statistic has been created, the type cannot be modified.



## 4.4 Additional Stretch Features

While the above features are expected to cover the current project timeline, the following items will also be considered as time allows.

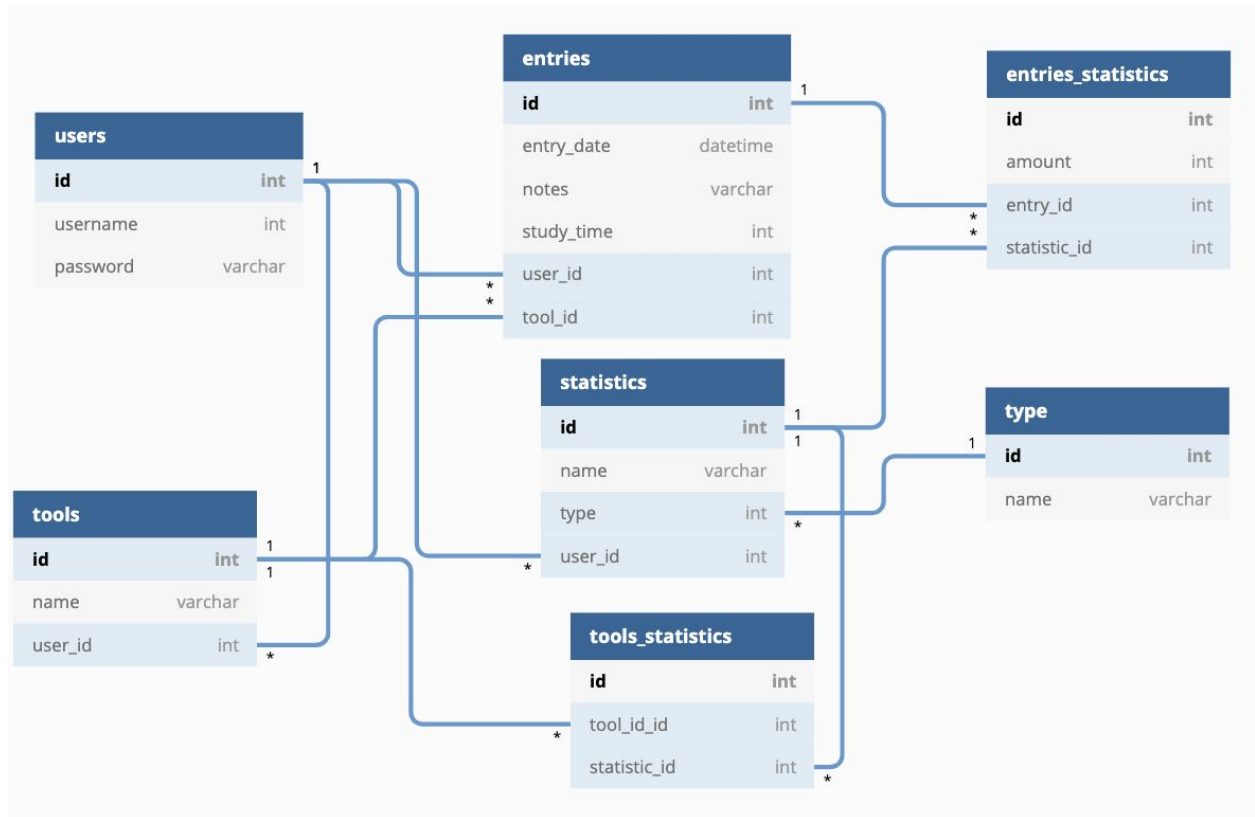
- URL links for online study tools
- Login w/ Google account
- Password strength - required minimum length and special characters
- User profile with editable email
- Configurable email reminders to study
- Configurable streak freeze (in advance only) for weekends or vacation

# Project Milestones and Schedule

Milestone (feature)	Hours Est.	Due Date	Base or Stretch
Project setup & database setup script w/ test data	2	3/3/2021	Base
<b>1.1 Log In &amp; 1.2 Registration Views</b>	1	3/3/2021	Base
<b>2.0 Home View</b> - nav bar, logout, & general layout w/ placeholders	2	3/3/2021	Base
<b>2.0 Home View</b> - Study History table view	1	3/3/2021	Base
<b>2.0 Home View</b> - Total Time, Vocabulary & Kanji Counts	2	3/10/2021	Base
<b>3.1 View Entry</b> - view, editable note, & delete	2	3/10/2021	Base
<b>3.0 Add Entry</b>	2	3/10/2021	Base
<b>2.0 Home View</b> - Default Graph	4	3/17/2021	Base
<b>2.0 Home View</b> - Study Streak	4	3/24/2021	Base
<b>4.0 Configuration View</b> - View only with layout	1	3/24/2021	Stretch
<b>4.1 Add/Edit Study Tool</b> - will also update 4.0 Configuration View	2	3/31/2021	Stretch
<b>4.2 Add Statistic</b> - will also update 4.0 Configuration View	1	3/31/2021	Stretch
<b>4.2 Edit Statistic</b> - will also update 4.0 Configuration View	1	3/31/2021	Stretch
<b>4.0 Configuration View</b> - Delete/Inactivate Study Tool	2	3/31/2021	Stretch
<b>4.0 Configuration View</b> - Delete/Inactivate Statistic	2	3/31/2021	Stretch
<b>2.0 Home View</b> - History Filters	2	3/31/2021	Stretch
<b>2.0 Home View</b> - Graph Filters	4	?	Stretch

# Database Documentation

View online: <https://dbdiagram.io/d/5cef088b1f6a891a6a658304>



# Browsers

Application will fully support browsers listed below. All browsers or versions not listed below are considered out of scope.

Browser Name	Mobile or Desktop?	Version
Chrome	Desktop	74.0

# Assumptions

While completing this estimate the following assumptions were made.

- List assumptions here

# Technologies

- Node
- Express
- React w/ Hooks, Redux, Sagas
- Passport w/ Local Authentication
- Postgresql
- Heroku
- Chart.js