

## Product Requirements Document (PRD): Beer Web App

### 1. Goal

The goal of the **Beer Web App** is to create a fun, community-driven platform for users to log and share the beers they drink, fostering friendly competition and creating a personal digital journal of their experiences.

### 2. Features & Detailed Requirements

#### 2.1 Authentication and User Management

This system must ensure secure and personal access for each user.

Feature	Requirement	Details
<b>Simple Authentication</b>	Users must be able to sign in using a <b>Username</b> and <b>Password</b> .	A session cookie or token must be created upon successful sign-in to maintain the user's logged-in state.
<b>User Profile Data</b>	The system must record and display a user's <b>Name</b> as part of their profile upon account creation.	The Name should be used for display purposes (e.g., on the Leaderboard).
<b>A. Create Account Flow</b>	A dedicated page for new users to register.	<b>Required Fields:</b> Username, Password (with confirmation), Name. <b>Action:</b> Submitting the form successfully creates the account and signs the user in.
<b>B. Forgot Password Flow</b>	A mechanism for users to reset their password if forgotten.	<b>Process:</b> User provides their Username (or email, if implemented). The system sends a secure link/code to the associated recovery method (e.g., email) to allow password reset.

#### 2.2 Core Application Pages (Logged-In Functionality)

All of the following features require the user to be signed in and should be accessible via distinct pages/views.

### 2.2.1 Post a Beer

This page allows the user to record a new beer entry. The entries must persist across sessions in a database.

Element	Requirement	Details
<b>Picture Upload</b>	Users must be able to upload a single image of the beer.	The system should support standard image formats (JPEG, PNG).
<b>Note/Description</b>	A multi-line text box must be available for users to add a descriptive note about the beer.	Character limit to be determined (TBD).
<b>Metadata Capture (Automatic)</b>	The system must automatically capture and store the following metadata with the post:	* <b>Date and Time of Submission:</b> Timestamp of when the post was created. * <b>Submitting Account:</b> The unique ID of the user who created the post.

### 2.2.2 View My Beers

This page displays the user's personal history of beer entries.

Element	Requirement	Details
<b>Data Presentation</b>	Entries must be displayed in a <b>Table</b> format.	Each row should contain the <b>Picture</b> , the <b>Note</b> , and the <b>Date/Time</b> of the post.
<b>Sorting</b>	The table must be sorted by <b>Date</b> , with the most recent entry at the top (descending chronological order).	
<b>Entry Management</b>	The user must be able to <b>Delete</b> any of their own entries directly from this table.	A confirmation prompt should be required before final deletion.

### 2.2.3 View All Beers

This page displays the communal history of all beer entries across all users.

Element	Requirement	Details
<b>Data Presentation</b>	Entries must be displayed in a <b>Table</b> format.	Each row should contain the <b>Picture</b> , the <b>Note</b> , the <b>Date/Time</b> , and the <b>Name</b> of the account member who submitted it.
<b>Entry Management</b>	Users <b>must not</b> be able to delete any entries on this page.	This view is read-only for community content.

#### 2.2.4 Leaderboard

This page visualizes user activity to promote friendly competition.

Element	Requirement	Details
<b>Visualization</b>	Data must be presented as a <b>Line Chart</b> .	Each unique user should be represented by a distinct line on the chart.
<b>Y-Axis</b>	Represents the <b>Total Drinks</b> (cumulative number of posts).	
<b>X-Axis</b>	Represents <b>Time in Months</b> .	The chart should show the cumulative number of drinks for each user over the application's history, segmented by month.
<b>Purpose</b>	The chart must clearly demonstrate who has posted the most beers over time.	