

Software Requirements Specification for Pet Name Generator

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Introduction

This Software Requirements Specification (SRS) document describes the functional, non-functional requirements and User stories for the Pet Name Generator application. The Pet Name Generator is a web-based tool designed to help pet owners discover creative and suitable names for their pets based on various criteria such as pet type, personality traits, and user preferences.

The purpose of this document is to provide a comprehensive overview of the system requirements, serving as a reference for development, testing, and project evaluation. It outlines what the system will do, the constraints under which it will operate, and the quality attributes it must possess.

This application aims to simplify the often challenging task of naming a new pet by providing users with personalized name suggestions through an intuitive and engaging interface. The system will generate names based on user-selected parameters, offering both random suggestions and filtered results to match specific preferences.

Requirements

Functional requirements

In the following section, you will find the functional requirements that define the core capabilities and behaviors of the Pet Name Generator system. These requirements specify what the system must do to meet user needs and business objectives.

ID	Name	Description
FR001	Name Generation	The system shall generate pet names randomly and display them to the user when the "Generate Name" button is clicked.
FR002	Animal Type Filtering	The system shall accept animal type input (Dog, Cat, Bird, Fish, Hamster, Rabbit) and generate names appropriate for the specified animal type. The system shall display an error message for unsupported animal types.
FR003	Batch Generation	The system shall provide a "Get 10 names" checkbox option that, when selected, generates and displays 10 pet names simultaneously instead of a single name.
FR004	Generation History	The system shall maintain and display a history of the 10 most recently generated pet names, ordered from most recent to oldest, accessible via a dedicated recent names page.
FR005	Popular Names Display	The system shall maintain and display a list of the most popular pet names based on generation frequency, allowing users to view trending name choices across all users.

Non functional requirements

In the following section, you will find the non-functional requirements that define the quality attributes and constraints of the Pet Name Generator system. These requirements specify how the system should perform and the standards it must meet in terms of performance, usability, and reliability.

ID	Name	Description
NFR001	Performance	The system shall generate and display name suggestions within 2 seconds of user input.
NFR002	Usability	The interface shall be intuitive enough that users can generate their first set of names within 30 seconds without instructions.

NFR003	Compatibility	The application shall function correctly on modern desktop web browsers (Chrome, Firefox, Safari, Edge) and is not required to support mobile devices.
NFR004	Scalability	The system shall maintain a database of at least 1,000 unique pet names across different categories.
NFR005	Availability	The application shall have 95% uptime during the project demonstration period.

User stories

US001: Generate popular pet name

As a user I want to get a popular pet name so that I can get a good name quickly.

ACCEPTANCE CRITERIA

Scenario 1: Generate first pet name

- **Given** I am on the pet name generator page
- **When** I click the "Generate Name" button
- **Then** I should see a randomly generated pet name displayed on the page

Scenario 2: Generate another pet name

- **Given** I have already generated a pet name
- **When** I click the "Generate Name" button again
- **Then** I should see a new randomly generated pet name displayed on the page

US002: Choose animal type

As a user I want to be able to choose which animal I want names for so that I can get animal-specific suggestions.

ACCEPTANCE CRITERIA

Scenario 1: Enter valid animal type and generate name

- **Given** I am on the pet name generator page
- **When** I enter a valid animal type in the text field (Dog, Cat, Bird, Fish, Hamster, Rabbit)
- **And** I click the "Generate Name" button
- **Then** I should see a randomly generated name appropriate for that animal type

Scenario 2: Enter invalid animal type

- **Given** I am on the pet name generator page
- **When** I enter an unsupported animal type in the text field (e.g., "Elephant", "Dragon")
- **And** I click the "Generate Name" button
- **Then** I should see an error message "Animal type not supported. Please use: Dog, Cat, Bird, Fish, Hamster, or Rabbit"

Scenario 3: Generate without entering animal type

- **Given** I am on the pet name generator page
- **And** The animal type field is empty
- **When** I click the "Generate Name" button
- **Then** I should see a generic pet name

Scenario 4: Change animal type and generate new name

- **Given** I have generated a name for one animal type
- **When** I enter a different valid animal type in the text field
- **And** I click the "Generate Name" button again
- **Then** I should see a new name appropriate for the newly entered animal type

US003: Get multiple name suggestions

As a user I want to be able to get 10 name suggestions at once so that I have more options to choose from.

ACCEPTANCE CRITERIA

Scenario 1: Generate single name (default)

- **Given** I am on the pet name generator page
- **And** The "Get 10 names" checkbox is not checked
- **When** I click the "Generate Name" button
- **Then** I should see 1 randomly generated pet name displayed

Scenario 2: Generate 10 names

- **Given** I am on the pet name generator page
- **When** I check the "Get 10 names" checkbox
- **And** I click the "Generate Name" button
- **Then** I should see 10 randomly generated pet names displayed

Scenario 3: Generate 10 names for specific animal type

- **Given** I am on the pet name generator page
- **When** I enter a valid animal type in the text field (e.g., "Dog")
- **And** I check the "Get 10 names" checkbox
- **And** I click the "Generate Name" button
- **Then** I should see 10 randomly generated names appropriate for that animal type

Scenario 4: Switch from 10 names to 1 name

- **Given** I have generated 10 names with the checkbox checked
- **When** I uncheck the "Get 10 names" checkbox
- **And** I click the "Generate Name" button
- **Then** I should see only 1 randomly generated pet name displayed

US004: View recent generated names

As a user I want to see the 10 most recent pet names that have been generated so that I can review previously generated names and get inspiration.

ACCEPTANCE CRITERIA

Scenario 1: View recent names when history exists

- **Given** pet names have been previously generated
- **When** I navigate to the recent names page
- **Then** I should see a list of the 10 most recent pet names that were generated
- **And** the names should be ordered from most recent to oldest

Scenario 2: View recent names when no history exists

- **Given** no pet names have been generated yet
- **When** I navigate to the recent names page
- **Then** I should see a message saying "No recent names found. Generate some names to see them here!"

Scenario 3: Refresh recent names list

- **Given** I am viewing the recent names page
- **When** I generate a new pet name using any generation method
- **And** I return to the recent names page
- **Then** the new name should appear at the top of the list
- **And** if there were already 10 names, the oldest name should be removed from the display