Spelling Bee Project Deliverables

# 1. Interface Specification Document

This document describes the RESTful API endpoints used by the Spelling Bee application. These endpoints enable interaction between the JavaScript frontend and the backend Flask application.

## GET /daily\_letters

Purpose: Retrieves the 7-letter puzzle for the current day.  
Returns:  
{  
 "letters": "abcdefg",  
 "center": "e"  
}

## POST /check\_word

Purpose: Validates a guessed word.  
Input (JSON):  
{  
 "session\_id": "<UUID>",  
 "word": "beads"  
}  
Returns:  
{  
 "is\_valid": true,  
 "points": 5,  
 "is\_pangram": false  
}

## POST /create\_session

Purpose: Starts a new user session.  
Returns:  
{  
 "session\_id": "<UUID>"  
}

## GET /get\_guesses?session\_id=<UUID>

Purpose: Retrieves the list of guessed words.  
Returns:  
{  
 "guesses": ["word1", "word2", ...]  
}

## POST /restart\_session

Purpose: Resets the user's guesses for the day.  
Input:  
{  
 "session\_id": "<UUID>"  
}

# 2. Design Document

The Spelling Bee app is built with the following components:  
  
- Frontend (HTML/CSS/JavaScript): Displays the user interface, accepts user input, and uses fetch() to interact with the REST API.  
- Flask Backend: Hosts the API endpoints and processes logic.  
- MySQL Database: Stores word list, daily letters, session data, and guesses.

Component Relationships:  
[Frontend JS/HTML]  
 ↓ (API Calls)  
[Flask REST API]  
 ↓ (DB Queries)  
[MySQL Database]