

# Systems Specification: Personal Assistant Software

## 1. Introduction

### 1.1 Project Overview

The personal assistant software website is designed to provide busy moms with a user-friendly platform to organize daily tasks, manage schedules, and enhance overall productivity. The website aims to simplify the lives of busy moms by offering a suite of features tailored to their unique needs.

### 1.2 Purpose

The purpose of this document is to define the requirements and functionalities of the personal assistant software website. It serves as a guide for development, testing, and maintenance.

## 2. System Overview

### 2.1 System Architecture

The website will follow a client-server architecture. The client-side will be implemented using HTML, CSS, and JavaScript, while the server-side will utilize a backend framework (e.g., PHP) with a database (e.g., MySQL).

### 2.2 Key Features

- User Registration and Authentication:**
  - Users can register for an account and log in securely.
  - Password recovery functionality for forgotten passwords.
- To-Do List Management:**
  - Users can create, edit, and delete multiple to-do lists.
  - Each to-do list can contain multiple tasks with due dates and statuses.
- User Profile:**
  - Users can manage their profiles, including personal information and preferences.
- Responsive Design:**
  - The website will be responsive to ensure optimal user experience on various devices.

## 3. Functional Requirements

### 3.1 User Registration and Authentication

#### 3.1.1 Registration

- Users can register with a valid email address, username, and password.

#### 3.1.2 Authentication

- Secure login with username/email and password.
- Password recovery mechanism.

### 3.2 To-Do List Management

#### 3.2.1 Create/Modify/Delete Lists

- Users can create new to-do lists.
- Modify existing to-do lists, including updating names and descriptions.
- Delete to-do lists.

#### 3.2.2 Task Management

- Add tasks to a to-do list with a name, description, due date, and status.
- Edit and update tasks.
- Mark tasks as completed.

### 3.3 User Profile

- Users can view and edit their profiles.
- Profile includes personal information and preferences.

### 3.4 Responsive Design

- The website will be responsive and accessible on various devices, including desktops, tablets, and smartphones.

## 4. Non-Functional Requirements

### 4.1 Performance

- The website should load within a reasonable time frame.
- Efficient database queries to ensure quick data retrieval.

### 4.2 Security

- Secure data transmission using HTTPS.
- Passwords stored securely using encryption.
- Protection against common web vulnerabilities

### 4.3 Usability

- Intuitive and user-friendly interface.
- Consistent design and navigation.

## 5. Technical Requirements

### 5.1 Frontend

- HTML5, CSS3, JavaScript for client-side development.
- Responsive design using a frontend framework (e.g., Bootstrap).

### 5.2 Backend

- Backend framework (e.g., PHP) for server-side logic.
- Database management system (e.g., MySQL)

## 6. Conclusion

This systems specification outlines the features, functionalities, and technical requirements for the personal assistant software website. It serves as a comprehensive guide for development and ongoing maintenance, ensuring the successful implementation of the project.