
WeddingSeater Pro

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Overview

- ▶ The system organizes and assigns guests to tables at events, ensuring automatic seating arrangements with manual adjustment capabilities.
- ▶ The system provides complete table management, guest addition and editing, and ensures seating based on the side (groom/bride), closeness (family, friends), and the exact available seats at each table.
- ▶ Manual adjustments can be made, verified for correctness, and instantly reflected in the table and seating arrangement diagram.
- ▶ All changes can be saved, and a full list of modifications can be reviewed. An Excel file with the updated seating arrangement can be generated and downloaded at any time.

Functionality

Frontend

The frontend is built using Vue.js. The SeatingTable component allows users to:

- Add, edit, and delete guests.
- Assign guests to tables using drag-and-drop functionality.
- Save changes through API requests to the backend.
- Display automatic seating arrangements and allow manual adjustments.
- Download the final arrangement as an Excel file.

--Presentation corrective actions.

Backend:

The backend is built using Express.js and uses Prisma to communicate with the database. The API provides functions such as:

- Automatic guest seating arrangements via algorithm.
- Handling manual adjustments and saving them to the database.
- Comparing manual adjustments with the automatic arrangement.
- Generating Excel files for seating arrangements.
- Managing user authentication and authorization via JWT.
- Checking the number of guests against table capacity and displaying an error if necessary

The backend uses JWT for user authentication and bcrypt for password encryption

Dependencies

Client side:

Vue.js: The core framework for building user interfaces.

VueRouter: Manages navigation between pages in your Vue.js application.

Pinia: The official Vue.js state management library.

Axios: A promise-based HTTP client for the browser and node.js.

VueDraggable: A Vue component for creating drag-and-drop interfaces.

ExcelJS: A library for reading and writing Excel files.

FileSaver.js: A library for saving files in the browser.

Server side:

Express.js: For managing the server and API.

Prisma: For database communication.

JWT: For managing user authentication.

bcrypt: For password encryption.

Application Flow

