**Requirements Document**

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**Project Title:** Faculty-Advisee Meeting Scheduling System

**Project Description:** This system simplifies the scheduling of meetings between faculty advisors and their advisees. It offers an interface for booking, managing appointments, and handling user accounts. The goal is to improve the efficiency of academic advising meetings, both in-person and remote (Zoom) options.

**Key Components:**

* **Front-End Technology:**
  + HTML and Thymeleaf for layout.
* **Back-End Technology:**
  + Spring Maven for application framework.
  + Database to manage all user logins and data. (Excel)
* **User Roles and Functionalities:**
  + **Administrator:**
    - Creates and manages advisor
    - Oversees the entire system.
    - Notifies advisees via email when a time slot is canceled.
  + **Advisor:**
    - Advisee logins – loaded using an excel file (use Apache POI (https://poi.apache.org/)
    - Provided with a list of advisees including their emails.
    - Sets available meeting times in 20-minute slots – Available times and days and time slots are loaded using an Excel file
    - Can add/block/delete time slots
    - Can view and manage advisee information.
    - Receives notifications for booking and cancellation.
    - Provides Zoom details if the remote meeting option is selected.
  + **Advisee:**
    - Receives login details via email (first name, last name, email, default random password).
    - Can choose advisors from a provided list.
    - Books and manages meeting times.
    - Option to select meeting mode: in-person or Zoom.
    - Receives confirmation emails for bookings and updates.
    - Advisee needs to provide a phone number and e-mail as contact when signing for a slot
  + **Reports:**
    - Generation of reports using JasperReport and Ireport Designer
    - JasperSoft Studio (https://sourceforge.net/projects/jasperstudio/)
    - IReport Designer (<https://sourceforge.net/projects/ireport/>)
    - Reports should have day, time slots and who has been signed up for time slots with name, e-mail and phone number
    - Should be able to integrate the time slots as appointments into Outlook calendar
* **Interface Requirements:**
  + Calendar view for displaying available time slots.
  + Displays faculty availability.
  + Color-coded time slots: available slots in color, unavailable slots grayed out.
  + Option to select Zoom meetings, with details provided by email upon selection.
  + Updates availability in real-time (e.g., canceled slots marked as available).