

Requirements Specification Document

Schedule

Meeting Scheduling Application

5.1 Introduction

This section describes the software requirements for Schedulr, a meeting scheduling application. The purpose of this application is to help groups find meeting times by collecting availability from all participants and identifying times that work for most people. The application is intended for students, school organizations, clubs, and project teams. At a high level, the application is a web based system with a back end component used to process availability data and a database used to store events and responses. No installation is required, as users will access the application through a web browser.

5.2 Functional Requirements

This section describes the functional requirements of the application. Functional requirements outline what the system shall do from the user's perspective and focus on system behavior rather than implementation details.

5.2.1 Functional Requirement 1: Meeting Creation

- **5.2.1.1** The system shall allow a user to create a new scheduling event.
- **5.2.1.2** The system shall allow the user to specify possible dates and times for the event.
- **5.2.1.3** The system shall generate a unique link for each scheduling event.

5.2.2 Functional Requirement 2: Participant Availability Submission

- **5.2.2.1** The system shall allow participants to access an event using the provided link.

- **5.2.2.2** The system shall allow participants to select the times they are available.
- **5.2.2.3** The system shall store availability data for each participant.

5.2.3 Functional Requirement 3: Availability Processing

- **5.2.3.1** The system shall process availability data from all participants.
- **5.2.3.2** The system shall determine meeting time options based on participant availability.
- **5.2.3.3** The system shall present the meeting time options to the meeting organizer.

5.2.4 Functional Requirement 4: Event Finalization

- **5.2.4.1** The system shall allow the organizer to close availability submissions.
- **5.2.4.2** The system shall allow the organizer to select a final meeting time.
- **5.2.4.3** The system shall allow the final meeting time to be shared with participants.

5.3 Performance Requirements

This section describes performance related requirements for the application. Performance requirements define how the system is expected to behave during normal use.

5.3.1 Performance Requirement 1: Capacity

- **5.3.1.1** The system shall support scheduling events with multiple participants without errors.

5.3.2 Performance Requirement 2: Response Time

- **5.3.2.1** The system shall record availability submissions without noticeable delay.
- **5.3.2.2** The system shall display scheduling results within a reasonable amount of time.

5.4 *Environment Requirements*

This section describes the environment required to develop and run the application.

5.4.1 Development Environment Requirements

- A computer or laptop
- An integrated development environment (IDE)
- GitHub for version control
- A web browser for testing

5.4.2 Execution Environment Requirements

- Internet connection
- Server environment environment for hosting the application