Scheduler App - Sequence Diagram

User	UI	Calendar	AppointmentList	ReminderList

User → UI: Choose to add new appointment

UI → Calendar: Identify active date/time

Calendar ⇠ UI: Return active date/time

UI ⇠ User: Pop up Add Appointment window

User → UI: Enter appointment details

alt [Invalid information]

UI ⇠ User: Show error and prevent entry

[Valid information]

UI → Calendar: Check for existing appointment

alt [Appointment exists at that time]

UI ⇠ Calendar: Return conflict

UI ⇠ User: Show message to choose available time or replace

[No conflict]

Calendar: Check for duplicate name and duration

alt [Duplicate exists]

UI ⇠ Calendar: Ask if joining existing meeting

UI ⇠ User: Confirm join existing meeting?

User → UI: User response

alt [User chooses to join]

UI → Calendar: Add user to participants

Calendar → AppointmentList: Update meeting participants

Calendar ⇠ AppointmentList: Confirm update

UI ⇠ Calendar: Done

UI ⇠ User: Appointment confirmed

[User creates new]

UI → Calendar: Record new appointment

Calendar → AppointmentList: Add to appointment list

Calendar ⇠ AppointmentList: Confirm addition

UI ⇠ Calendar: Done

UI ⇠ User: Appointment created

[Unique appointment]

UI → Calendar: Record new appointment

Calendar → AppointmentList: Add to appointment list

Calendar ⇠ AppointmentList: Confirm addition

UI ⇠ Calendar: Done

opt [Reminder selected]

UI → ReminderList: Add reminder

UI ⇠ ReminderList: Confirm reminder added

UI ⇠ User: Appointment created

User	UI	Calendar	AppointmentList	ReminderList