actor "Host" as H

participant "ScheduleRenovationPageViewModel" as SP

participant "ScheduleRenovationWindowViewModel" as SW

participant "RenovationService" as RS

participant "AccommodationService" as AS

participant "AccommodationRepository" as AR

participant "RenovationRepository" as RR

participant "CalendarConfigurator" as CC

participant "UnavailableDateMarker" as UM

participant "BetweenDayMarker" as BM

participant "ReservationCalendar" as RC

H->SP ++: Schedule(SelectedAccommodation, StartDateRange, EndDateRange, Duration)

SP -> SW \*\*: <<create>>

SW -> CC ++: ConfigureCalendar(SelectedAccommodation, StartDateRange, EndDateRange, Duration)

CC -> UM ++: BlackOutUnavailableDates(SelectedAccommodation, StartDateRange, EndDateRange)

loop SelectedAccommodation.UnavailableDates

opt SelectedAccommodation.UnavailableDates.Start >= StartDateRange || SelectedAccommodation.UnavailableDates.End <= EndDateRange

UM -> RC ++: BlackOutDates(SelectedAccommodation.UnavailableDates)

RC -> UM --: Calendar

end

end

opt SelectedAccommodation.UnavailableDates.Count > 0

UM -> BM ++: CheckDaysBetween(unavailableDateRanges, dayNumber, chosenDateRange)

opt betweenDaysCount < daysNumber

BM -> RC ++: BlackOutDates(SelectedAccommodation.UnavailableDates)

RC -> BM --: Calendar

end

BM --> UM --: Calendar

end

UM -> CC --: Calendar

CC ->SW --: Calendar

SW -> SP --: Calendar

SP -> H --: Calendar

H -> SW ++: Calendar

SW -> SW ++: WriteFirstAndLast(Calendar)

SW -> SW --: StartDate, EndDate

SW->AS ++: Add(StartDate, EndDate)

AS-->SW --: SelectedAccommodation

AS->AR ++: Add(StartDate, EndDate)

AR-->AS --: SelectedAccommodation

SW->AS ++: Update(SelectedAccommodation)

AS-->SW --: SelectedAccommodation

AS->AR ++: Update(SelectedAccommodatiom)

AR-->AS --: SelectedAccommodation

SW -> RS ++: Add(StartDate, EndDate, Duration, Description, SelectedAccommodation)

RS -> RR ++: Add(StartDate, EndDate, Duration, Description, SelectedAccommodatiom)

RR--> RS --: renovation

RS-->SW --: renovation

SW--> H--: Renovation

@enduml