

## Updates for Dynamic Time Validation

To enforce that the start time is always before the end time, we'll make the End Time dropdown dynamic—it will only show options that are after the selected Start Time. This prevents invalid selections upfront, rather than just erroring after. The Start Time dropdown remains full (6:00 AM to 6:00 PM), as users typically pick start first.

### 1. Keep the TimeSlots Collection as Is:

- No changes needed to the OnStart/OnVisible code for generating slots from 6:00 AM to 6:00 PM.

### 2. Update Dropdown\_EndTime Items Property:

- Set the Items property of "Dropdown\_EndTime" to:

text	×	☰	🔗
Filter(TimeSlots, Time > Dropdown_StartTime.Selected.Time)			

- This filters the collection to only include times strictly after the selected start time. For example:
  - If start is 9:00 AM, end options start from 9:30 AM onward up to 6:00 PM.
  - If no start is selected yet, it shows nothing (or you can add a default message).
- To handle the initial state (no start selected), you can add a hint label: "Select start time first."

### 3. Handle Default and Reset:

- On the screen's OnVisible, or after clearing selections, add:

text

✕ ⇨ 🔒

```
Reset(Dropdown_StartTime); Reset(Dropdown_EndTime);
```

- Optionally, set DefaultSelectedItems for Dropdown\_StartTime to the first slot if desired:

text

✕ ⇨ 🔒

```
First(TimeSlots)
```

#### 4. Retain Backend Validation:

- Keep the existing check in the "Reserve" button's OnSelect:

text

✕ ⇨ 🔒

```
If(varEndDateTime <= varStartDateTime, UpdateContext({ctxError: "End
```

- This acts as a safety net if something slips through (e.g., via direct variable manipulation).

#### 5. User Experience Improvements:

- Add an OnChange for Dropdown\_StartTime:

text

Reset(Dropdown\_EndTime); // Clears end selection if start changes to

- If you want to allow same-day start=end (but since slots are 30-min apart, minimum is start + 30 min), adjust the filter to `Time >= DateAdd(Dropdown_StartTime.Selected.Time, 30, TimeUnit.Minutes)` for at least one slot duration.
- Test: Select start at 5:30 PM—end should only show 6:00 PM. Select start at 6:00 PM—end shows nothing (handle with error or disable button).

This approach proactively prevents invalid picks, improving usability. No changes to SharePoint or other app logic. If you meant something else by "less than end time" (e.g., allowing start = end for zero-duration, which is unusual), clarify!

↳ Advanced Power Apps validation techniques

↳ Power Automate approval workflows

↳ Include UI screenshots