

## 0. Scope

A self-contained prototype demonstrating: **click-to-create tasks**, **drag-to-reposition**, **bottom-handle resize** (15-minute increments), **inline rename**, **full modal edit**, and **delete**—with mandatory limit lines and a current-time line. No persistence, no additional panels.

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## 1. Product & Technical Setup

- **Languages:** Plain HTML, CSS, vanilla JavaScript (ES6).
  - **Libraries:** InteractJS (or similar) for drag/resize; tiny modal library (or custom) for task editor.
  - **Hosting:** Static files (e.g., GitHub Pages). No backend/database.
  - **Debug Flag:** Global `debug` boolean logs create/drag/resize/delete/limit-drag events.
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## 2. Core Layout

### 2.2 Fixed Top Banner

- Full-width dark banner (`#212121`, `position: fixed; top: 0; width: 100%; z-index: 1000`).
- Left: **logo** + “DUN” text.
- Right: **Task quick-add input**, `[Add]` button, and **Filter dropdown**.

### 2.3 Hours Panel (primary view)

- Vertical timeline column covering **12 AM → 12 AM**.
  - **Row grid:** visible hour lines every hour; half-hour dashed; tasks may start/stop at **0, 15, 30, 45** minutes.
  - Left-side hour labels show plain numbers (`12, 1, 2...`) with **PM hours bolded** for quick distinction.
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## 3. Interaction Rules

### 3.1 Create Task

1. Double Click empty slot ⇒ prompt asks for task name.
2. Creates a **60-minute default block** anchored to the nearest 15-min grid.
3. After creation, the viewport does **not** auto-scroll (user scrolls manually).

### 3.2 Drag & Drop Re-position

- Drag block vertically; snap to nearest 15-min increment.
- Reject drop if overlap; flash red border 400 ms then revert.

### 3.3 Resize Duration

- Bottom edge resize handle ( `cursor: ns-resize` ).
- Snap in 15-minute increments; minimum 15 min; can extend to next task or midnight.
- Reject/flash red if overlap, snap back to the first open 15min increment.

### 3.4 Delete Task

- Trash icon ( `×` ) top-right of block.
- Confirm via `confirm()` ; on accept, remove block.

### 3.5 Inline Rename & Modal Edit

- **Double-click title text** ⇒ switches to inline editable `<input>` ; Enter to save, Esc to cancel.
- **Double-click anywhere else** on block (or click Pencil icon) ⇒ open \*\*Task Edit Modal (Exact same modal code as is already defined or implement. If it is not defined yet, then use the following fields:

#### Task Edit Modal Fields

Field	Notes
Title	Required text field
Start Time	Time picker locked to 15-min increments
Duration	Numeric stepper (15-min steps)
Description	Multiline notes
Priority	Optional flag toggle
Delete Button	Removes task (same confirm)

- Modal saves on blur and on close. Save button also saves and closes.

### 3.6 Visual Feedback

- Drag/resize highlight = brighter accent outline.
  - Ghost placeholder = accent 30 % opacity.
  - Hover lightens block fill by 20 %.
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## 4. Time Lines (Mandatory)

### 4.1 Current-Time Line

- Solid accent line (1 px) across full width.
- Small clock icon off right edge.
- Updates 5 minutes;

### 4.2 Limit Lines

Line	Default Time	Visual	Dragging
<b>STOP</b>	6:00 PM	3x-thick diagonal-striped accent line + octagon icon	Draggable vertically
<b>SLEEP</b>	11:00 PM	3x-thick diagonal-striped accent line + "ZZZ" icon	Draggable vertically

- The value representing the remaining-time before the next limit line (e.g., "9:30 rem") displayed just below each limit line icon.
- Drag handle, label, time indicator, and limit line all move together; snap to 15-min increments.

## 5. Styling

- Dark theme: #212121 background, #dddddd body text, #00CEF7 accent.
- Hour lines: solid #333; half-hours: dashed #2a2a2a.
- Task blocks: accent fill (rgba(0,206,247,0.85)), white text.
- Icons & handles: accent 100% opacity; fade to 70% on idle.

## 6. Data (runtime-only)

```
const tasks = [  
  { id, title, startIndex, durationSteps /* 15-min units */ },  
];
```

Page reload resets data.

## 7. Logging

- With debug=true, console logs: create, dragStart, dragEnd, resize, delete, limitDrag.

### End of Standalone Hours-View Prototype Requirements